CF-550B

E Model
GEP Model

FM/AM STEREO CASSETTE-CORDER

SPECIFICATIONS

GENERAL

Power Requirements: 127, 220 or 240V ac, 50/60Hz (GEP model)
100, 110–120 or 220–240V ac, 50/60Hz (E model)
6V dc, four batteries size D (IEC Designation R20), Rechargeable Battery Pack BP-8H (optional)
or 12V car battery with Sony Car Battery Cord DCC-127H (optional)

Power Consumption: 8W ac

Power Output: 3W (1.5W x 2) max.

Speakers: two speakers 12 x 8 cm (5 x 3 1/2 inches)
two speakers 10 x 7 cm (4 x 3 inches)

Battery Life: Approx. 6 hours of continuous recording from the Built-in Microphones with Long-life Batteries size D

Dimensions: Approx. 334 (w) x 244 (h) x 119 (d) mm
13 1/4 (w) x 9 5/8 (d) x 4 3/4 (d) inches
including projecting parts and controls not including handle

Weight: Approx. 5.3 kg, 11 lb 11 oz
including batteries

RADIO SECTION

Frequency Range: FM 87.5–108 MHz
AM 530–1,605 kHz

Antennas: FM: Telescopic antenna
External antenna jack
AM: Built-in ferrite-rod antenna

TAPE RECORDER SECTION

Recording System: 4-trach 2-channel stereo or monaural

Fast Winding Time: Approx. 1 min. 30 sec. with Sony Cassette C-60

Frequency Response: 50–10,000 Hz (with standard cassette, with the TAPE SELECT switch set to NORMAL)
50–13,000 Hz (with chromium dioxide cassette, with the TAPE SELECT switch set to CrO_2)

S/N Ratio: 45 dB

Total Harmonic Distortion: 2.5%

Wow and Flutter: 0.22% (WRMS)

Inputs: MIC ..... 2 (minijack)
sensitivity 0.2 mV (–72 dB)
for low impedance microphone
LINE IN ..... 2 (phono jack)
sensitivity 0.06 V (–22 dB)
input impedance 100 kilohms

– Continued on page 2 –

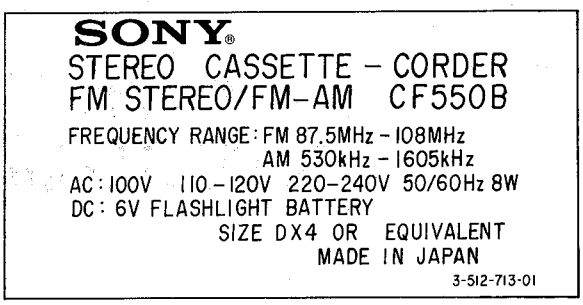
SONY®
SERVICE MANUAL

Outputs: LINE OUT ..... 2 (phono jack)
rated output 0.78V (0dB) at
load impedance 100 kilohms
load impedance 10 kilohms or higher
HEADPHONE ..... 1 (stereo binaural jack)

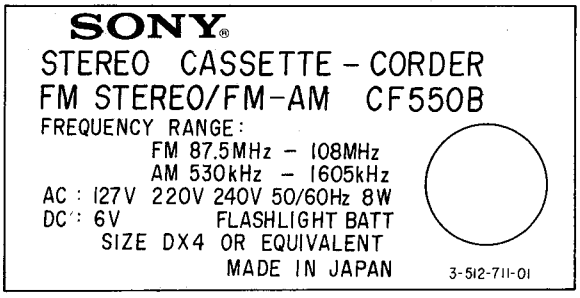
Other Jack: Remote control jack 1

IDENTIFICATION OF SET

(E model)

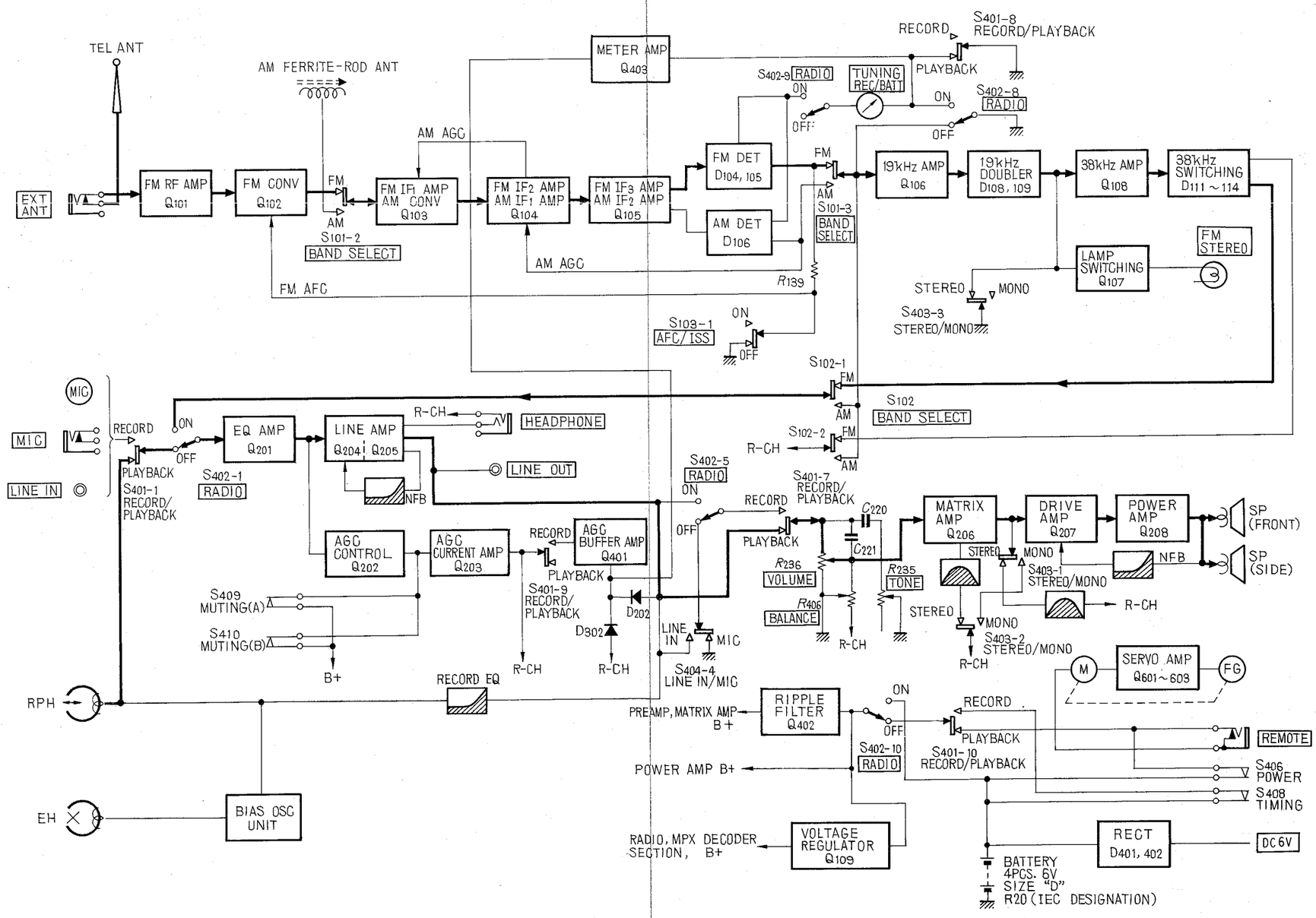


(GEP model)



SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

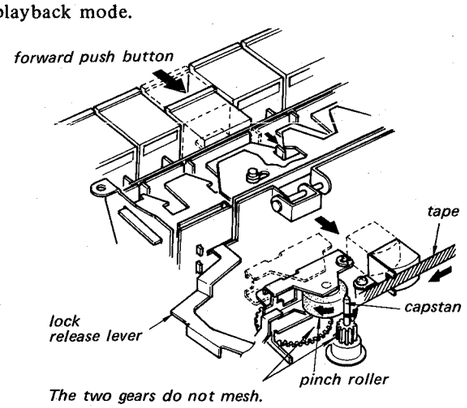


1-2. AUTOMATIC SHUT-OFF MECHANISM OPERATION

The CF-550B mechanism is designed so that the set turns off automatically at the tape end in record and playback modes.

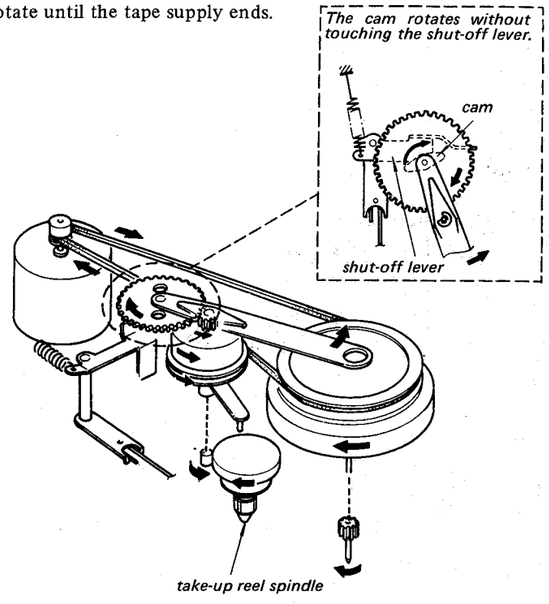
As an example, the operation in playback mode describes step by step in numerical order.

1 Normal operation in playback mode.

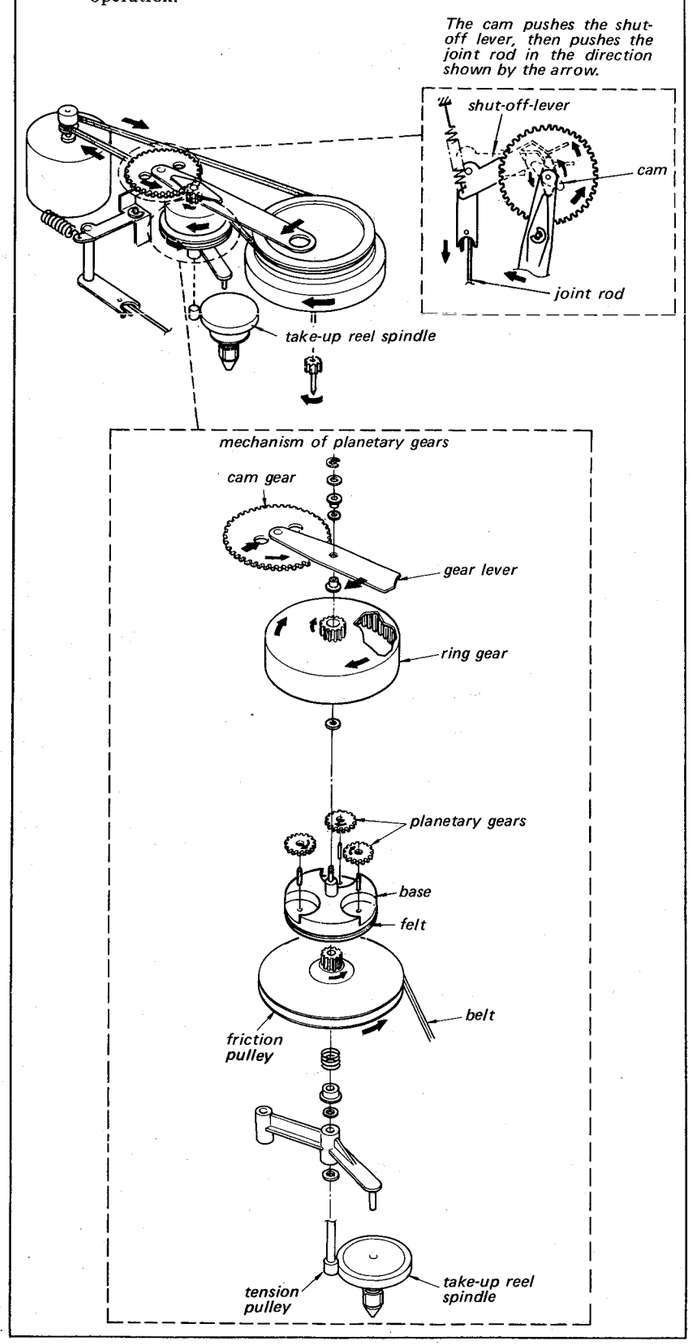


The two gears do not mesh.

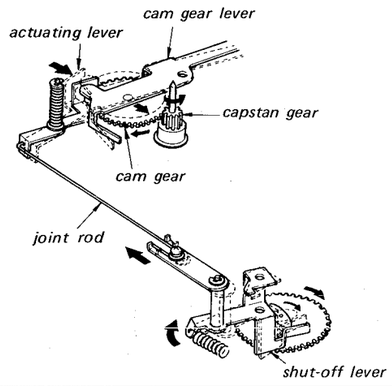
2 The take-up reel spindle keeps to rotate until the tape supply ends.



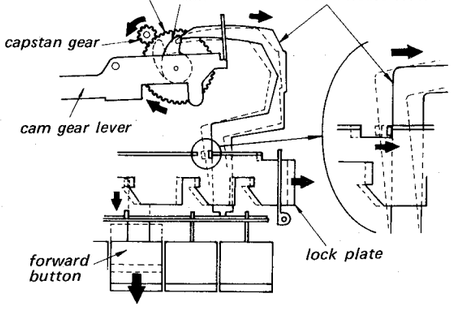
3 When the tape supply ends, the take-up reel spindle stops. The each part moves due to the planetary gear operation.



4 By the joint rod movement, the cam gear contacts the capstan gear.



5 By the capstan gear rotation, the cam gear rotates. The cam pushes the lock release lever. Then the lock plate is pushed in the direction shown by the arrow. So, the forward lever is released, the set turns off.



1-3. MATRIX SOUND STEREO DESCRIPTION

[Four Speaker Matrix Sound Stereo]

This model employs two pairs of speakers installed as shown in Fig. 1 and Matrix Sound Amplifiers between preamplifiers and power amplifiers. Through L-channel speakers, L-channel sound and some part of phase reversed R-channel sound (-KR) or L-KR appear and similarly through R-channel speakers, R-channel sound and some part of phase reversed L-channel sound (-KL) or R-KL. (Here K is the sound pressure ratio.)

And the sounds L-KR and R-KL are combined for stereo effect in the air space in front.

Considering L-channel sound only for example, L-channel sound appearing through L-channel speakers and some part of phase reversed L-channel sound (-KL) appearing through R-channel speakers are combined to produce L' vector sound which sounds as if its sound source is transfered to SP (L') along L' vector.

The side speakers SP (L2) and SP (R2) widen the sound field by the effect of reflected sounds from walls and also prevent the cancellation of lower frequency sound.

[Matrix Sound Stereo Circuit]

Matrix Sound Stereo Circuit is shown in Fig. 2. When signals-L and -R are delivered into bases of Q206 and Q306 respectively, signals L and R appear on collectors of Q206 and Q306 and signals -L and -R on emitters of Q206 and Q306.

Considering L-channel, signal -KR through CR filter from emitter of Q306 as well as signal L appears and they are combined to produce signal L-KR and delivered into power amplifier. ($0 < KL < R$)

Emitter side filters of Q206 and Q306 work as frequency and phase compensators to emphasis the stereo effect.

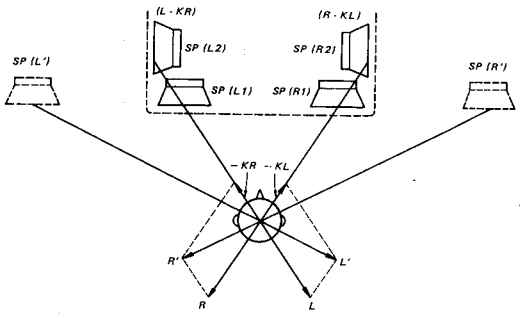


Fig. 1.

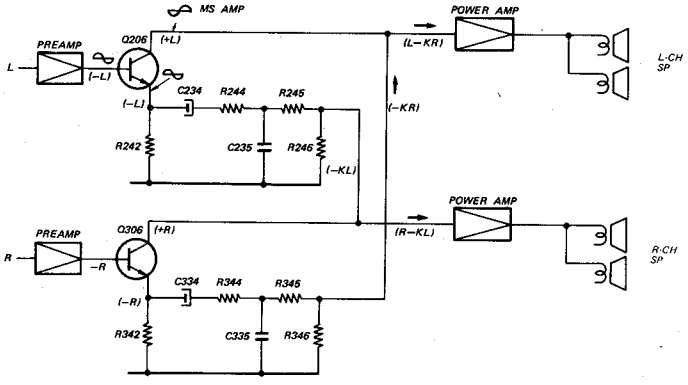
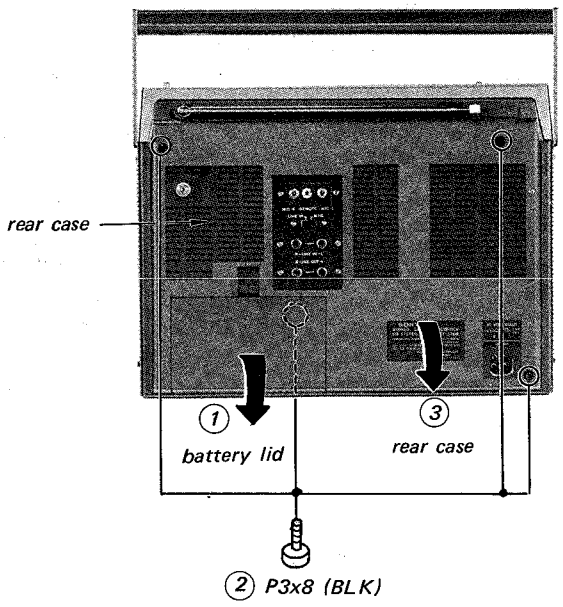


Fig. 2.

SECTION 2
DISASSEMBLY

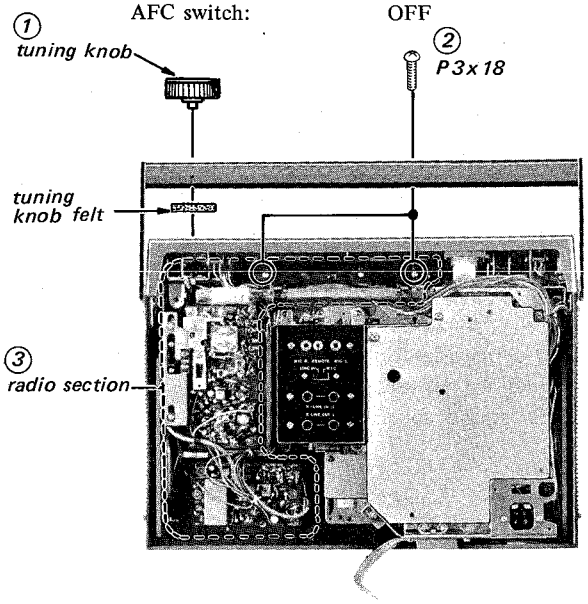
2-1. REMOVALS

Rear Case

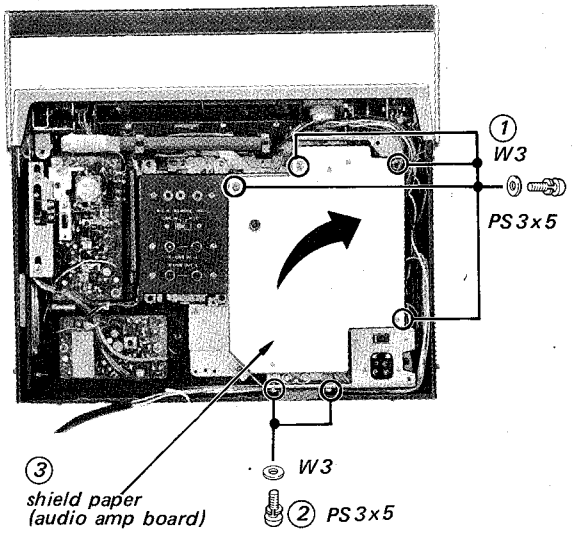


Radio Section

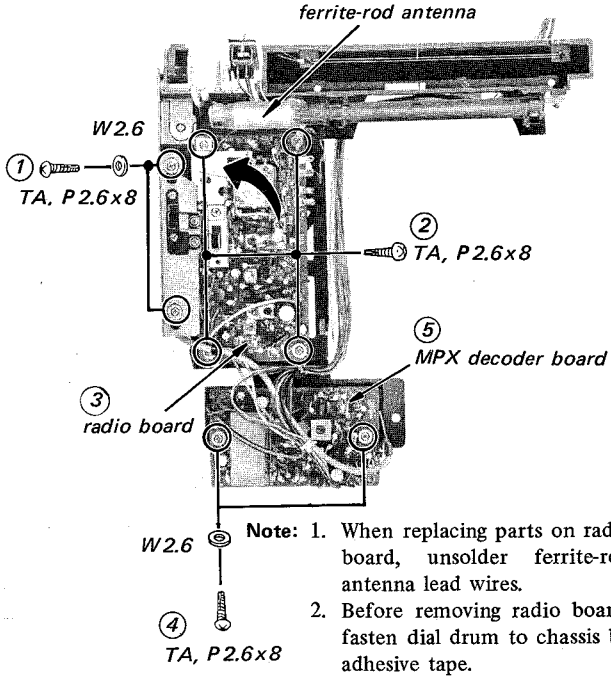
Note: BAND SELECT switch: AM
AFC switch: OFF



Audio Amp Board



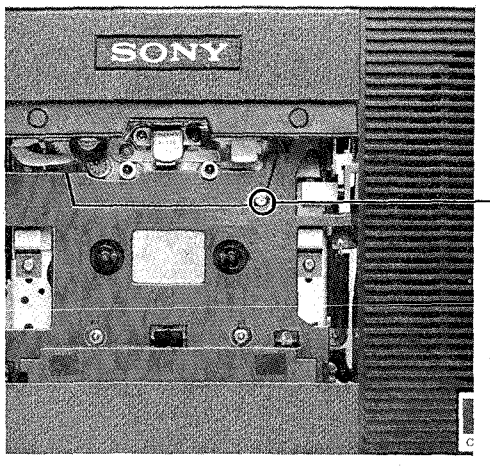
Radio and MPX Decoder Boards

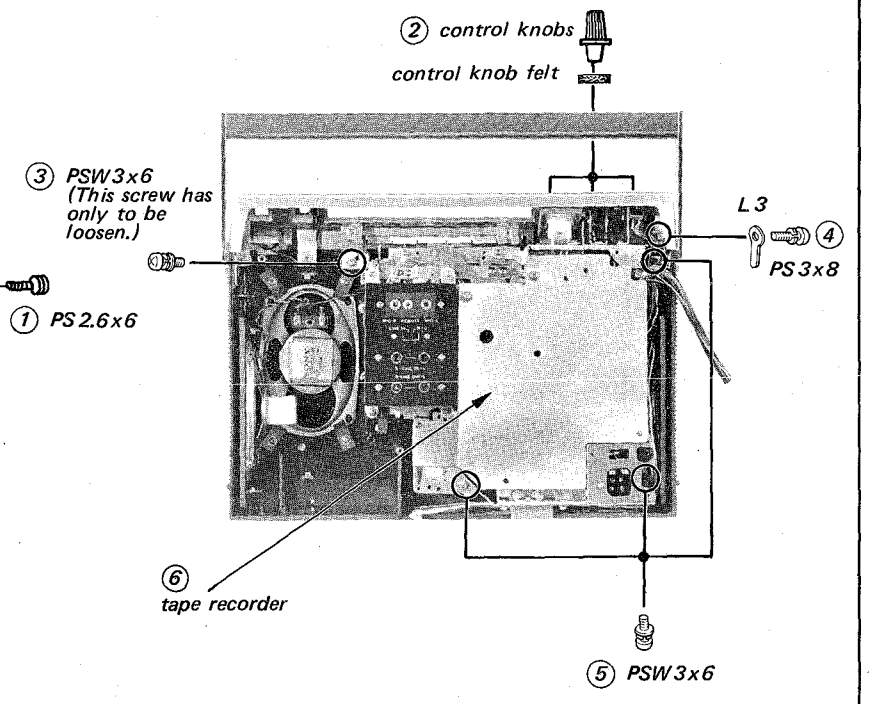


Note: 1. When replacing parts on radio board, unsolder ferrite-rod antenna lead wires.
2. Before removing radio board, fasten dial drum to chassis by adhesive tape.

Tape Recorder

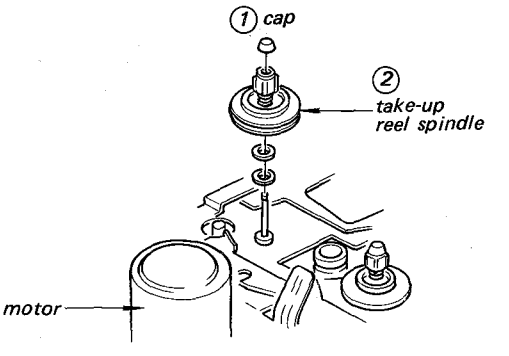
Note: RADIO switch: OFF
TAPE SELECT switch: SPECIAL





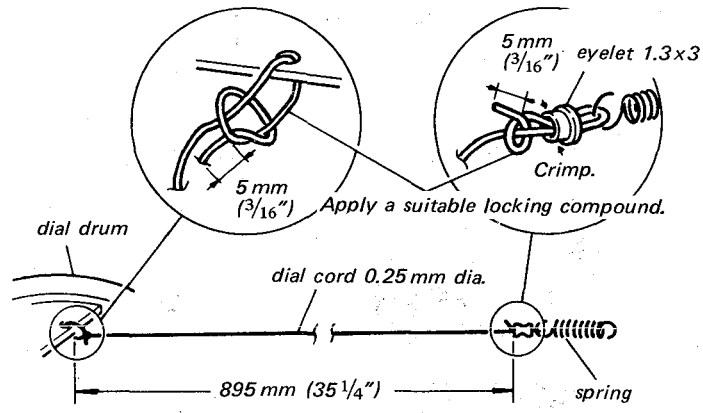
2-2. DIAL CORD STRINGING
(See page 10)

Take-up Reel Spindle

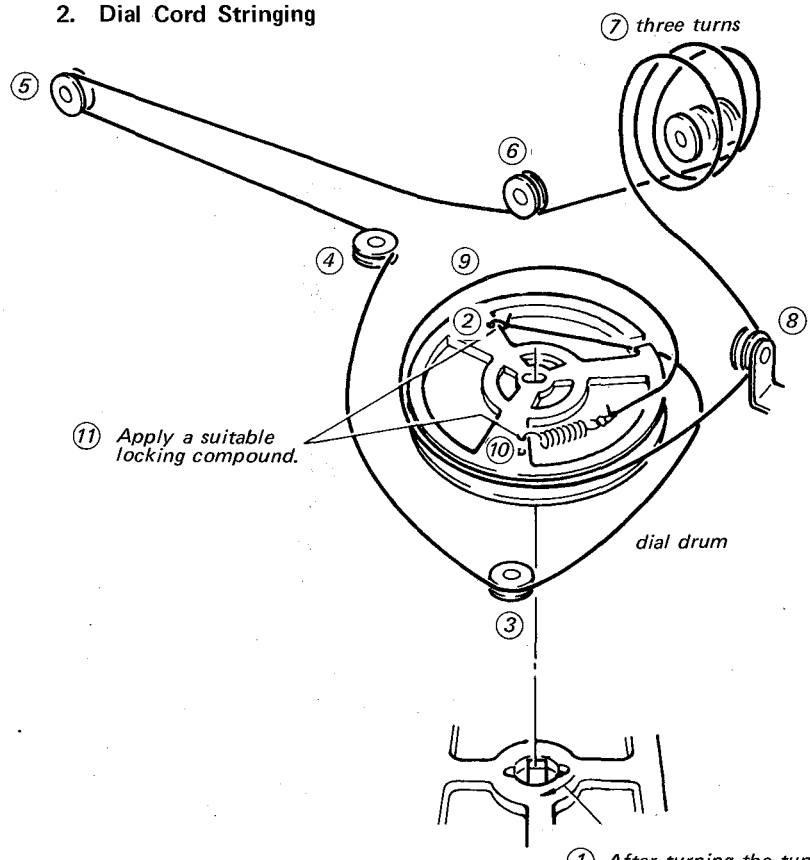


2-2. DIAL CORD STRINGING

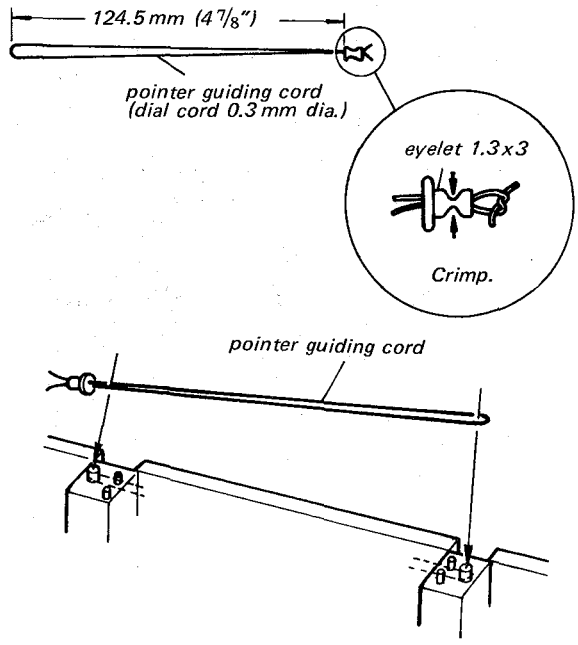
1. Dial Cord Preparation



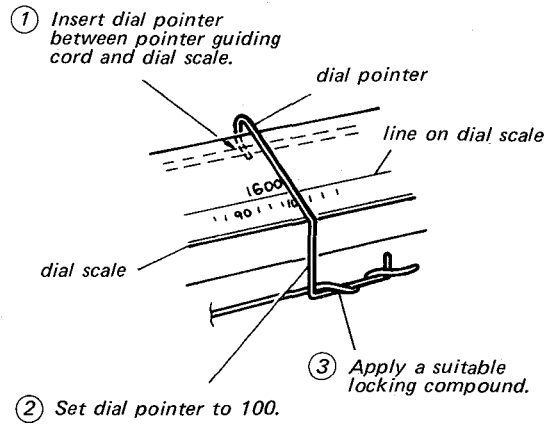
2. Dial Cord Stringing



3. Pointer Guiding Cord Installation



4. Dial Pointer Installation


① Insert dial pointer between pointer guiding cord and dial scale.
dial pointer
line on dial scale
dial scale
③ Apply a suitable locking compound.
② Set dial pointer to 100.

SECTION 3
ADJUSTMENT

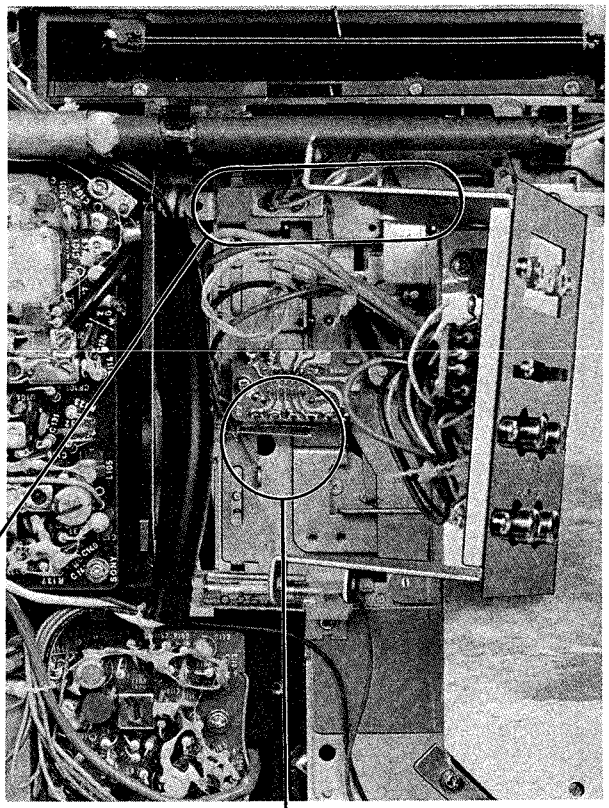
3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

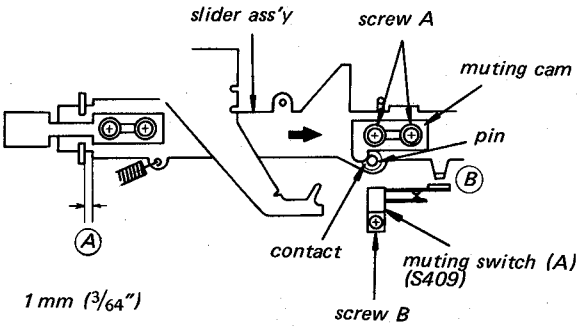
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



Muting Switch (A) (S409) Adjustment

This switch prevents click noise produced when tuning record/playback switch.

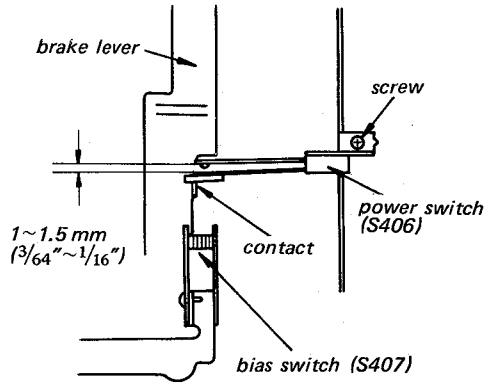
1. Loosen the screw A and position the muting cam to contact the pin when the clearance at Ⓐ is 1 mm (3/64").
2. Loosen the screw B and position the muting switch (A) for no clearance at Ⓑ when the slider ass'y is moved completely in the direction shown by the arrow.



Power Switch (S406) Adjustment

– Stop mode –

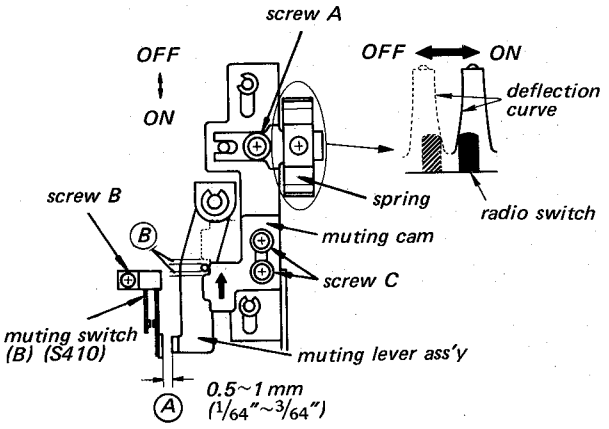
Note: When slowly pressing the FORWARD button, make sure that the power switch (S406) turns on and then bias switch (S407) in changed.

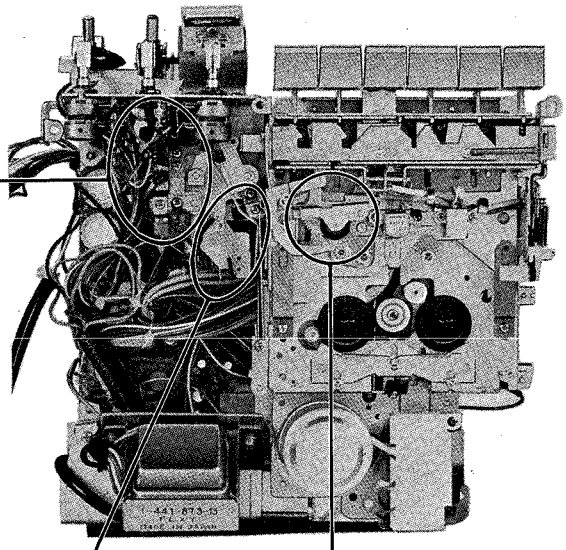


Muting Switch (B) (S410) Adjustment

This switch prevents click noises produced when turning the RADIO switch on or off.

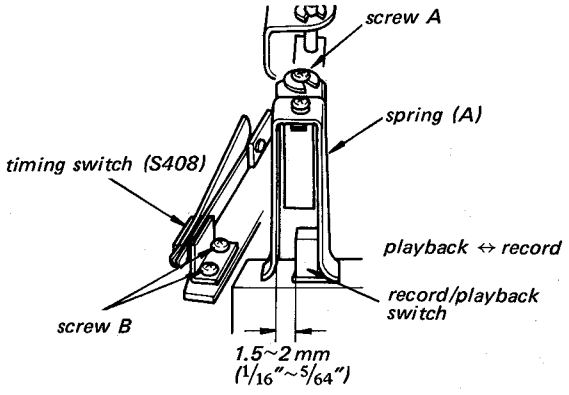
1. When turning the RADIO switch on or off, make sure that the deflection curves of the spring are the same. If necessary, loosen the screw A and change the spring position.
2. When turning the RADIO switch off, position the muting switch (B) (S410) for the specified clearance at Ⓐ by loosing the screw B.
3. When turning the RADIO switch on or off, position the muting cam for the same clearances at Ⓑ by loosing the screw C.





Timing Switch (S408) Adjustment

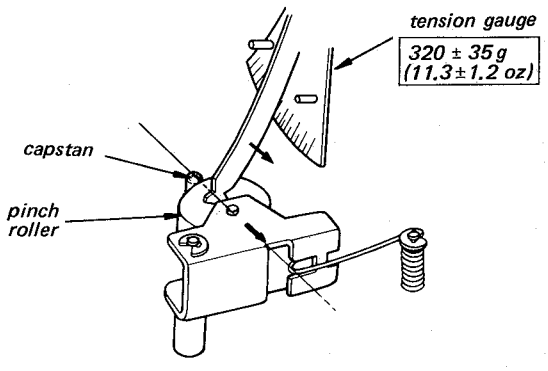
1. When pressing the RECORD button, position the spring (A) for the specified clearance by loosing screw A as shown below.
2. When slowly pressing the RECORD button, make sure that the timing switch turns on and then the record/playback switch turns to record. If necessary, loosen the screw B and change the timing switch position.



Pinch Roller Pressure Adjustment

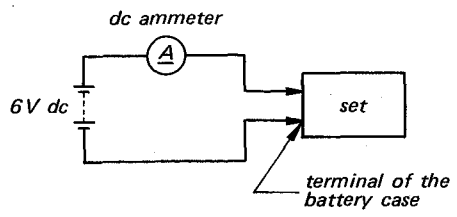
– Playback mode –

1. Push the tension gauge.
2. Slowly return the pinch roller and read the tension gauge just when the pinch roller starts to rotate.

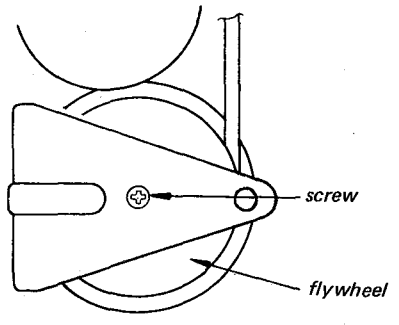


Flywheel Thrust Play Adjustment

Procedure:



1. Place the set horizontally and reel-spindle-side-down.
2. Loosen the screw by turning it counterclockwise.
3. Carefully turn the screw clockwise until current suddenly increases.
   Then, turn the screw 1/8 turn counterclockwise.



Reference Data

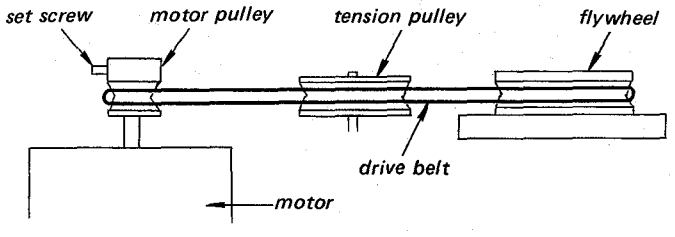
- Forward Torque: 40–60 g.cm (0.56–0.84 oz.inch)
- First Forward, Rewind Torque: 70–150 g.cm (0.98–2.0 oz.inch)
- Wow and Flutter: less than 0.35% (RMS)

Motor Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.



3-2. ELECTRICAL ADJUSTMENT

TAPE RECORDER SECTION

Note: The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

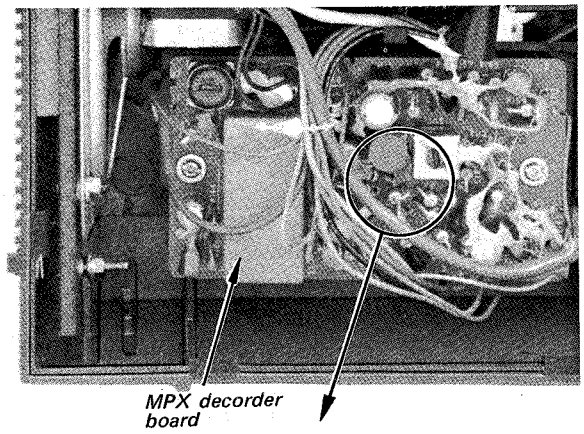
Radio B+ Voltage Adjustment

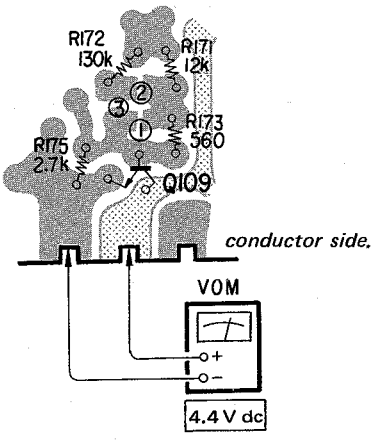
Setting:

Power supply voltage:	6V dc
BAND switch:	FM
RADIO switch:	ON
VOLUME control:	MIN
Tuning:	detuned

Adjustment Location and Specification:

Pattern connection	B+ Voltage
open	high
①	
① and ②	
③	low





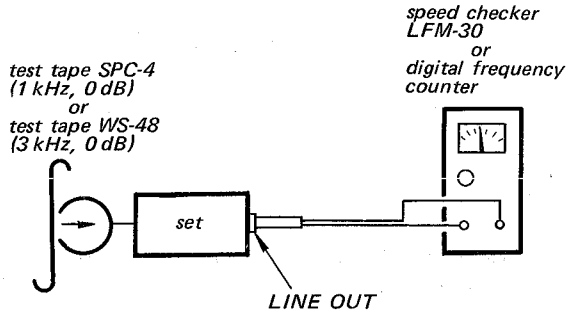
Tape Speed Adjustment

Setting:

VOLUME control:	mechanical mid
RADIO switch:	OFF

Procedure:

Mode: playback

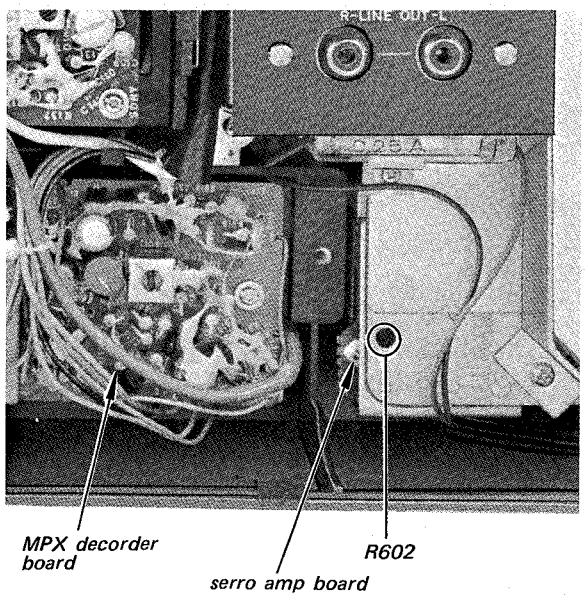


Specification:

Speed checker	Digital frequency counter
-2–+2.5%	980–1,025 Hz (SPC-4) 2,940–3,075 Hz (WS-48)

Frequency difference between begining and end of tape should be within 1% (10 Hz; SPC-4 or 30 Hz; WS-48).

Adjustment Location:

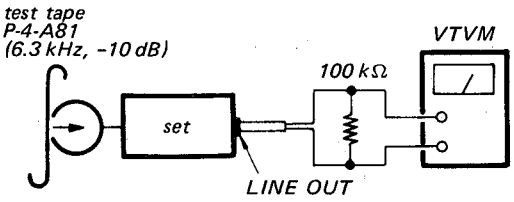


Record/playback Head Azimuth Adjustment

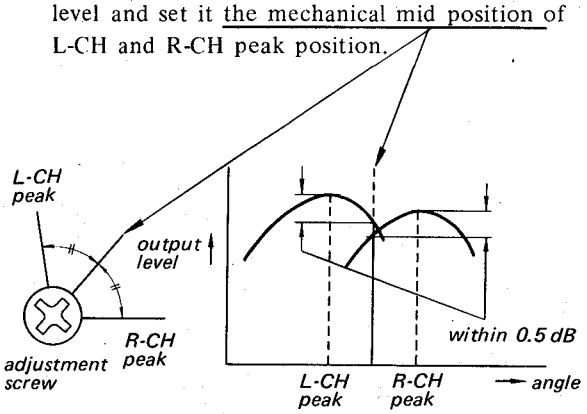
Setting:

RADIO switch:	OFF
VOLUME control:	mechanical mid
STEREO/MONO switch:	STEREO

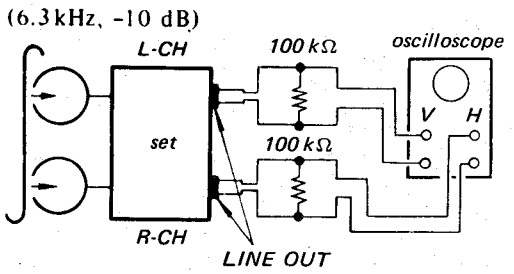
1. Mode: playback

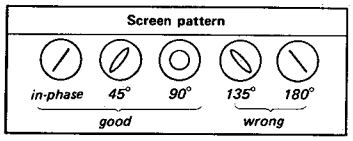


2. Turn the adjustment screw for the maximum level and set it the mechanical mid position of L-CH and R-CH peak position.

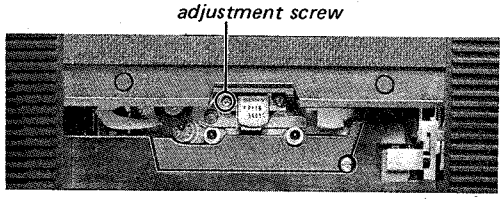


3. Mode: playback





Adjustment Location:

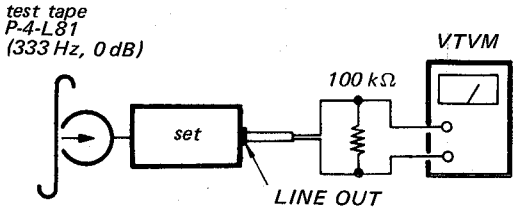


Playback Level Adjustment

Setting:

RADIO switch:	OFF
TAPE SELECT switch:	NORMAL
STEREO/MONO switch:	STEREO

Procedure:



Specification:

LINE OUT level: 0.775 V–1.2 V
(0 dB–4 dB)

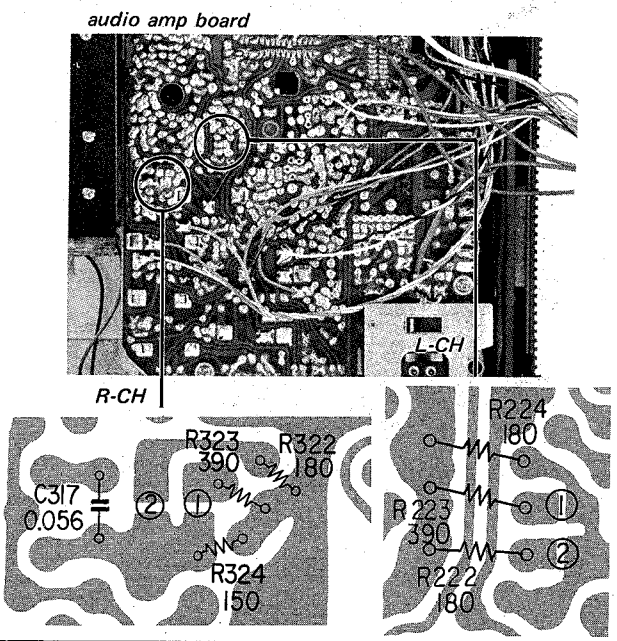
Level difference between channels:
less than 1.5 dB

Check that LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

Pattern connection

Pattern connection	LINE OUT Level
① and ②	high
①	↕
open	low



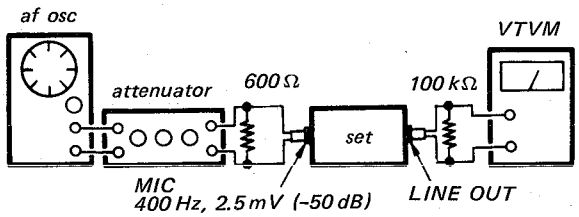
AGC Balance Adjustment

Setting:

MIC/LINE IN switch:	MIC
STEREO/MONO switch:	STEREO
RADIO switch:	OFF

Procedure:

1. Mode: record

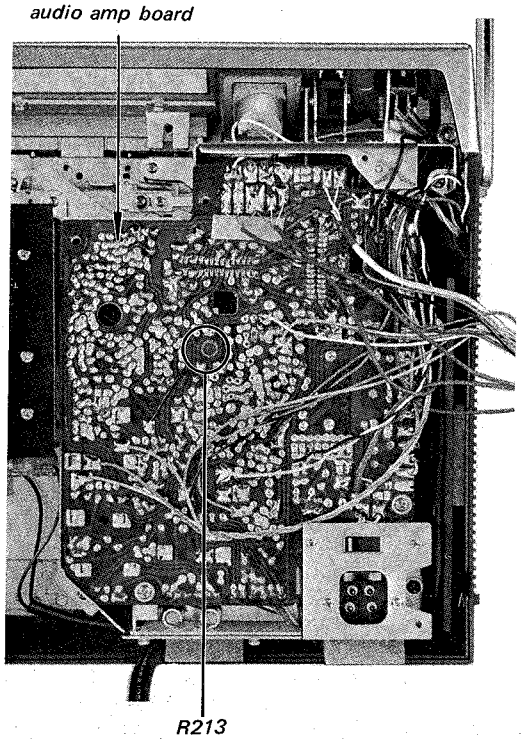


2. Adjust R213 so that LINE OUT level of L-CH becomes the same as R-CH.
3. Decrease the input level to 0.77 mV (-60 dB).
4. Measure LINE OUT levels of both L-CH and R-CH.

Specification:

LINE OUT level difference between L-CH and R-CH: within 3 dB

Adjustment Location:



Battery Meter Calibration

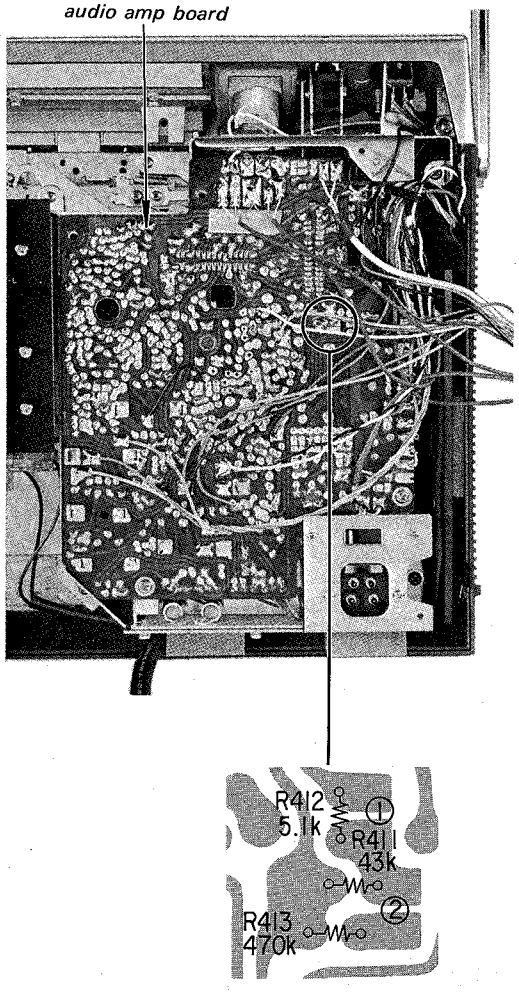
Setting:

Power Supply Voltage:	4.4 V dc
VOLUME control:	minimum
RADIO switch:	OFF
Mode:	playback with no cassette loaded

Note: Keep the set vertical.

Adjustment Location and Specification:

Pattern connection	Pointer deflection	Meter indication
open	red region	
①	↕	
① and ②	white region	white / red



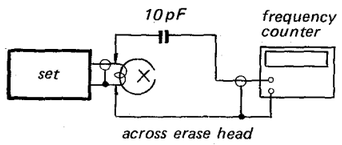
Bias Osc Frequency Adjustment

Setting:

TAPE SELECT switch: NORMAL
RADIO switch: OFF

Procedure:

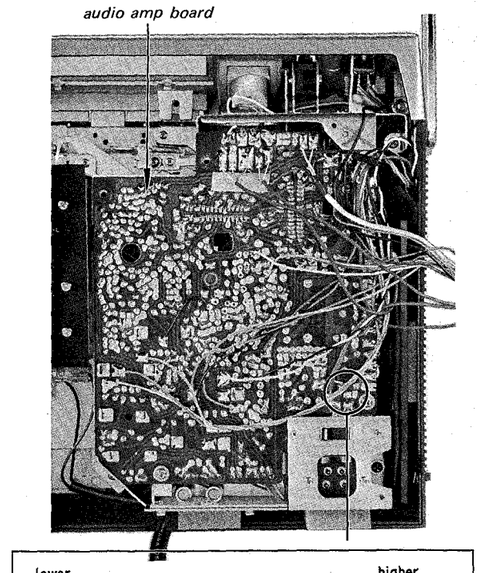
Mode: record (no signal input)

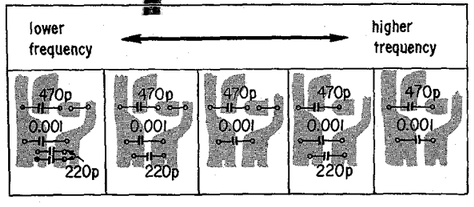


Specification:

AFC/ISS switch: ON
79.2 kHz–84.8 kHz
AFC/ISS switch: OFF
82 kHz–87 kHz

Adjustment Location:





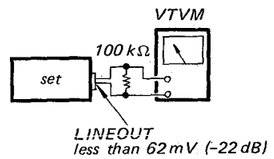
Bias Leakage Adjustment

Setting:

RADIO switch: OFF
MIC/LINE IN switch: LINE IN
AFC/ISS switch: OFF

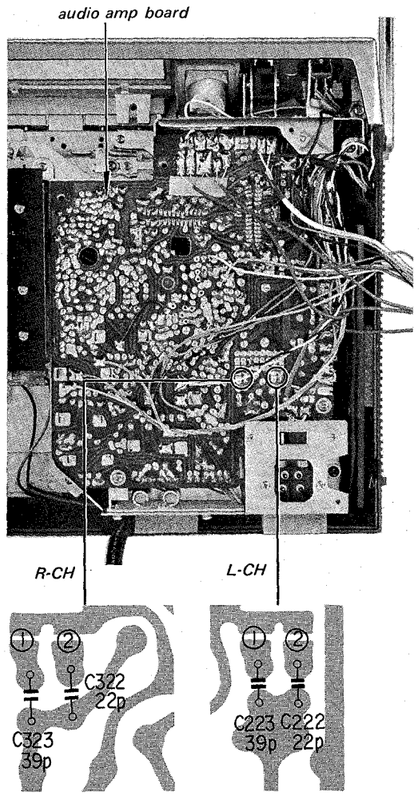
Procedure:

Mode: record (no signal input)



Adjust pattern connection for the specified reading on VTVM.

Adjustment Location:



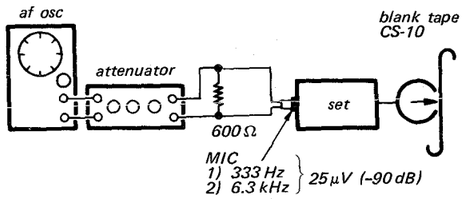
Record Bias Adjustment

Setting:

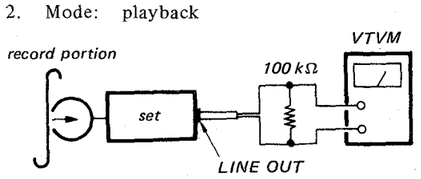
TONE control: HIGH
RADIO switch: OFF
TAPE SELECT switch: NORMAL
MIC/LINE IN switch: MIC

Procedure:

1. Mode: record



2. Mode: playback



Specification:

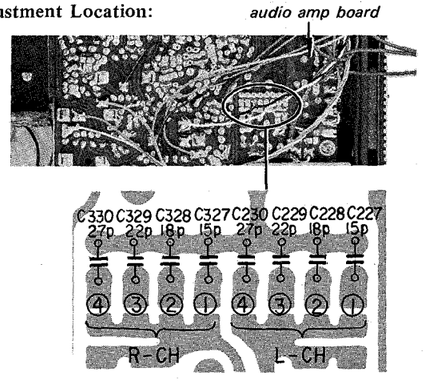
6.3 kHz Level difference from 333 Hz:
within ± 2 dB

1.

Pattern connection	6.3 kHz VTVM reading
①	up
②	
③	
④	down

2. If necessary, repeat above steps.

Adjustment Location:



RADIO SECTION

I-F Section DC Current Adjustment

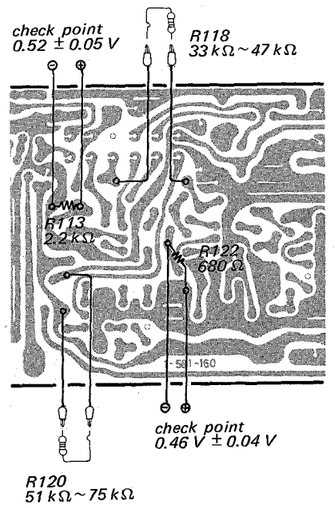
Note: Purpose of this adjustment is to get optimum bias voltages for Q103 and 104.

Setting:

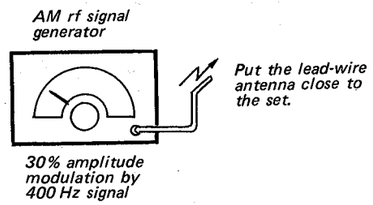
RADIO switch: ON
BAND switch: AM
Tuning knob: fully clockwise and detuned

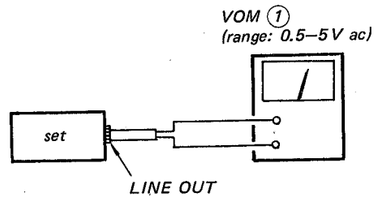
Procedure:

radio board



1. Select resistance value of R120 for 0.46 ± 0.04 V across R122.
2. Select resistance value of R118 for 0.52 ± 0.05 V across R113.



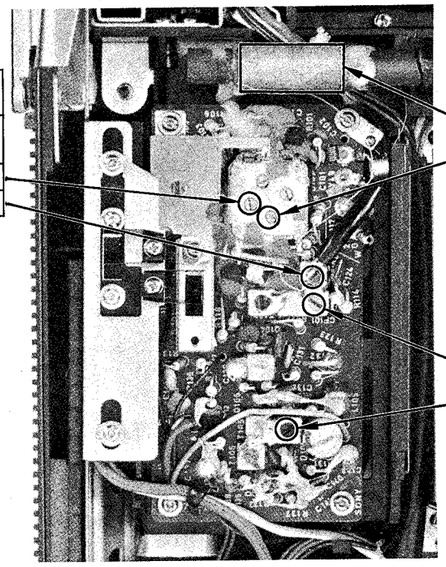


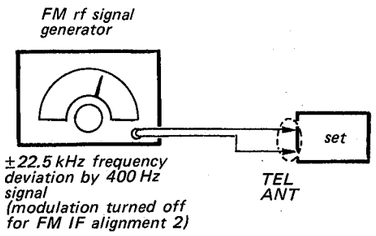
Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

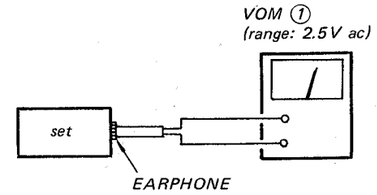
AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
1,680 kHz	C108-14
520 kHz	T102

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
ANT2	620 kHz
C108-13	1,400 kHz

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM (1).	
CF101	455 kHz
T107	




FM rf signal generator
±22.5 kHz frequency deviation by 400 Hz signal (modulation turned off for FM IF alignment 2)
set
TEL ANT



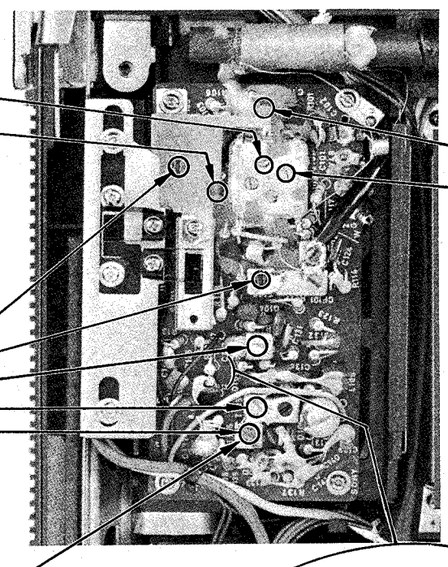
Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
109.5 MHz (108.5 MHz)	C108-12
86 MHz (87.1 MHz)	L104

( ): in West Germany

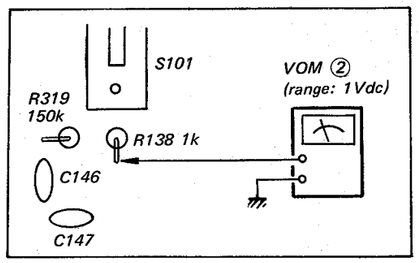
FM IF ALIGNMENT 1 (10.7 MHz with modulation)
Adjust for a maximum reading on VOM (1).
T101
T103
T104
T105
T106

FM IF ALIGNMENT 2 (10.7 MHz with no modulation)
Adjust for a 0 V reading on VOM (2).
T106



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
L102	86 MHz (87.1 MHz)
C108-11	109.5 MHz (108.5 MHz)

( ): in West Germany

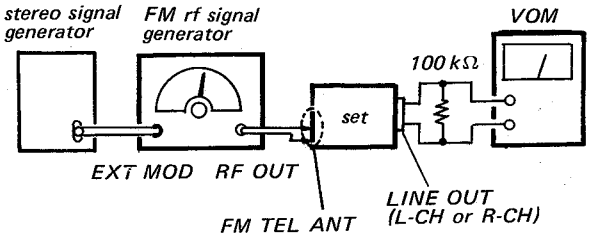


Stereo Separation Adjustment

Setting:

FUNCTION switch: FM
MODE switch: STEREO

Procedure:

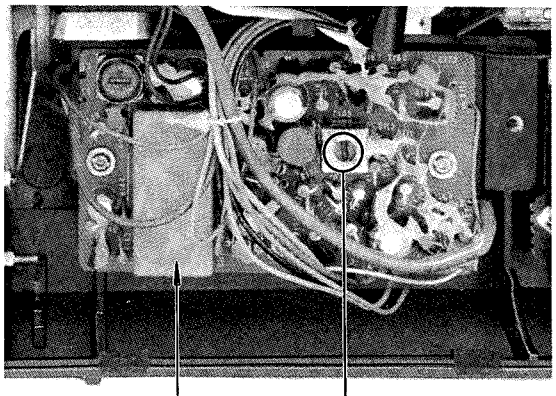


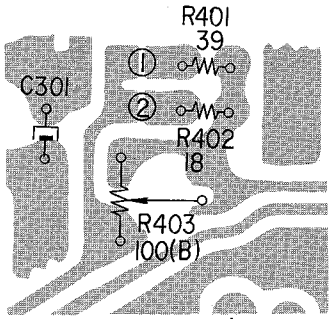
Carrier frequency: 98 MHz

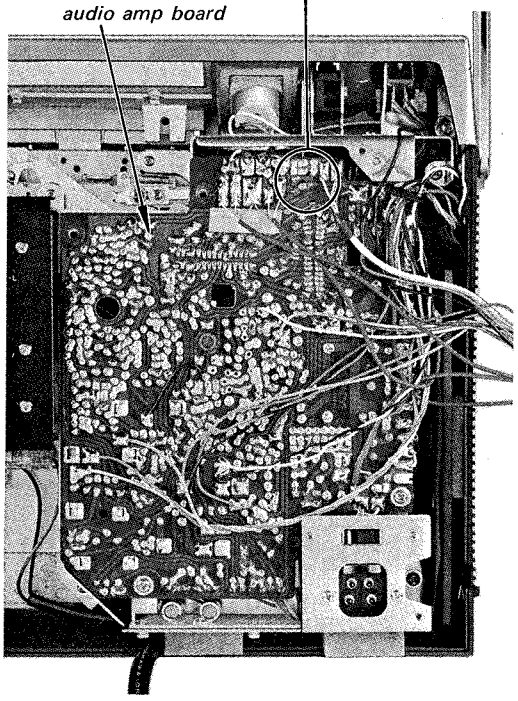
	Main channel	Sub channel	Pilot signal
Frequency deviation	10.125 kHz (13.5%)	10.125 kHz (13.5%)	7.5 kHz (10%)
Modulation frequency	1 kHz	1 kHz	19 kHz

1. Adjust T108 for a maximum reading on VOM at both channels.
2. Modulate L-ch (R-ch) only and adjust the pattern connection for a minimum reading on VOM at R-ch (L-ch).
3. Adjust R403 for a minimum reading on VOM at R-ch (L-ch).
4. Repeat above several times.

Adjustment Location:



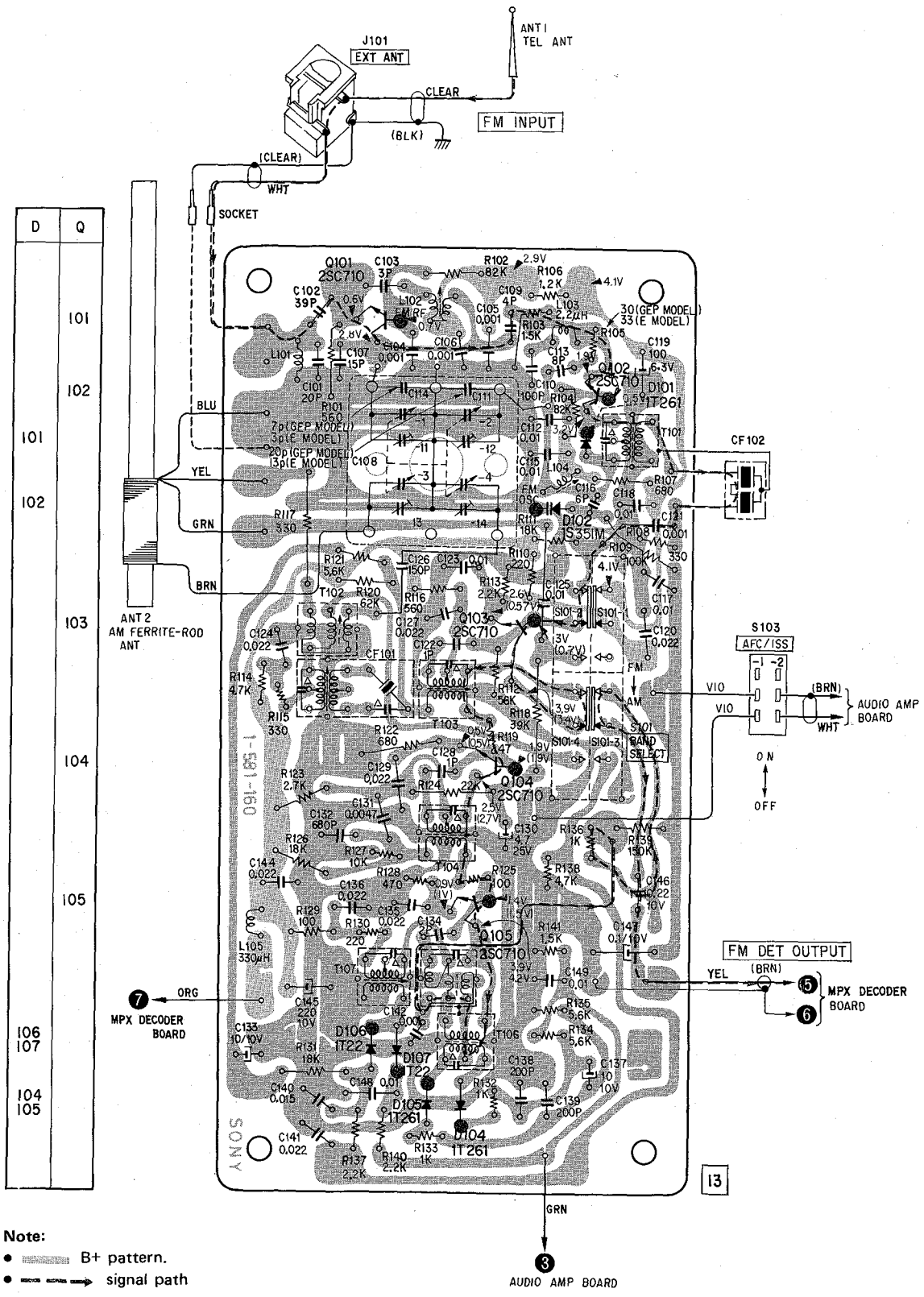




SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM – Radio Board –

– Conductor Side –

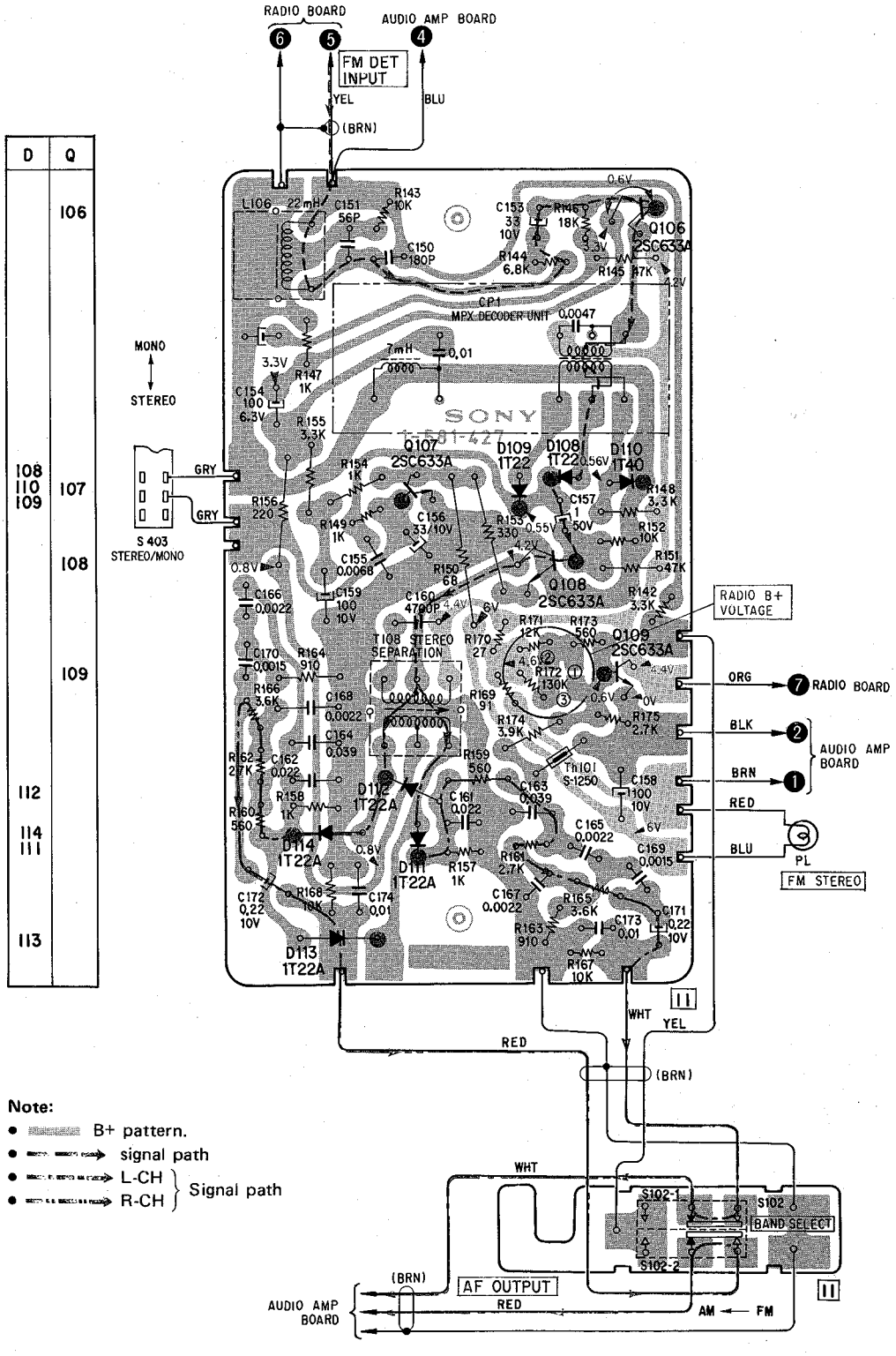


Note:

- B+ pattern.
- signal path

4-2. MOUNTING DIAGRAM – MPX Decoder Board –

– Conductor Side –



Note:

- B+ pattern.
- signal path
- L-CH } Signal path
- R-CH }

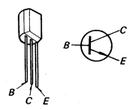
CF-550B

CF-550B

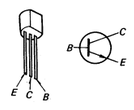
4-3. MOUNTING DIAGRAM

— Conductor Side —

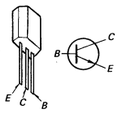
2SC710



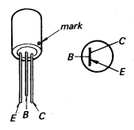
2SC1474



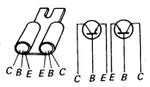
2SC633A
2SC631A



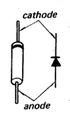
2SB475



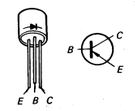
BX495/RC152Y



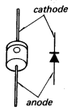
1T261
1S351M
1T22
1T40
1T22A



M8641A

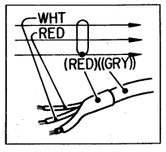


10D2



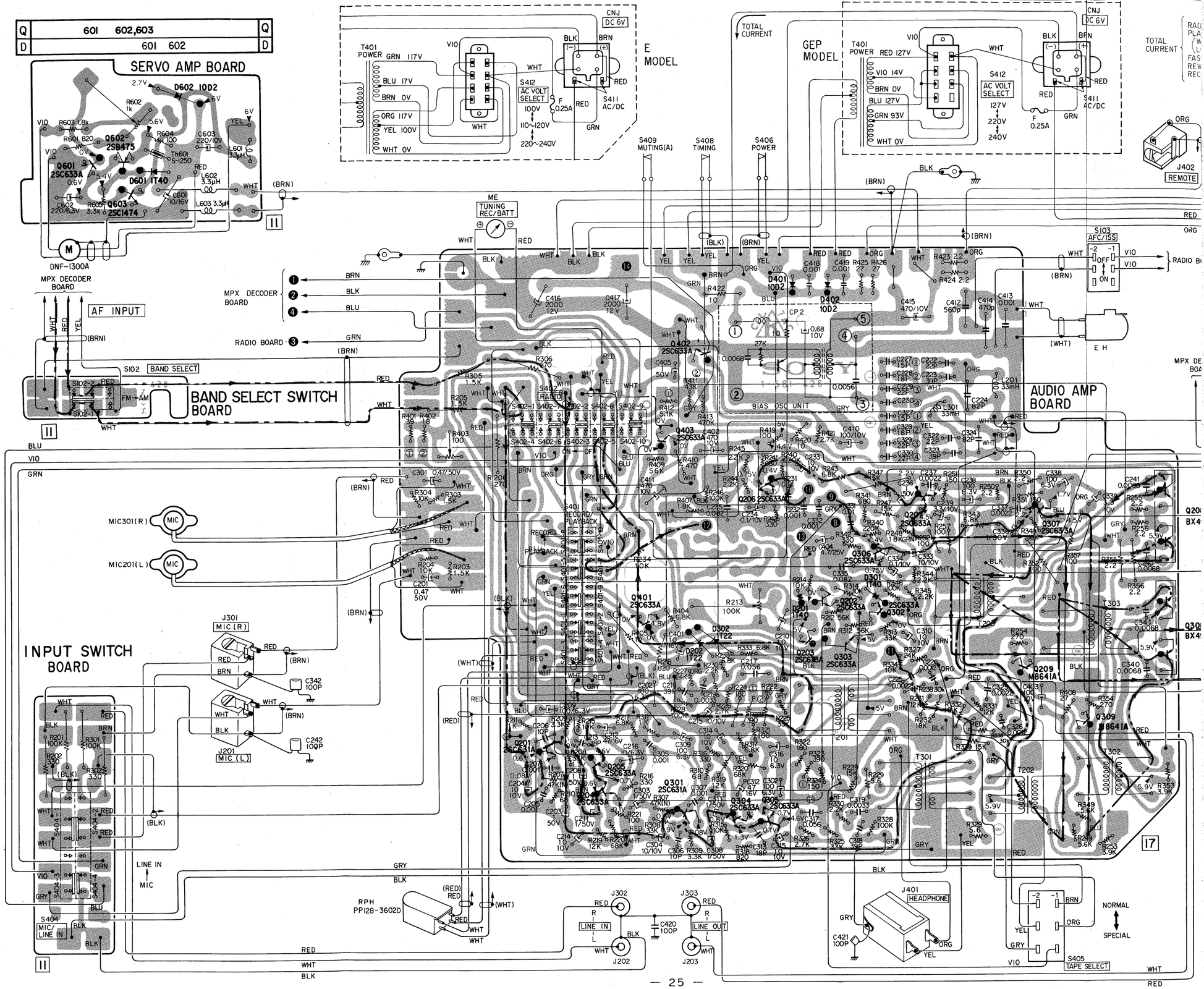
Note:

- ●— indicates lead wire connection on the conductor side.
- ○— indicates lead wire connection through the component side.
- ▨ B+ pattern.
- Color code of sleeving over the end of the jacket.



- ●—·—→ L-CH
- ●—··—→ R-CH

} Signal path



E MODEL

GEP MODEL

TOTAL CURRENT

RADIO "ON"	75mA
PLAYBACK (WITH NO CASSETTE LOADED)	160mA
FAST FORWARD	210mA
REWIND	190mA
RECORD	190mA

- BATTERY 4PCS. 6V SIZE "D" R20 (IEC DESIGNATION)
- RECHARGABLE BATTERY BP-8

AUDIO AMP BOARD

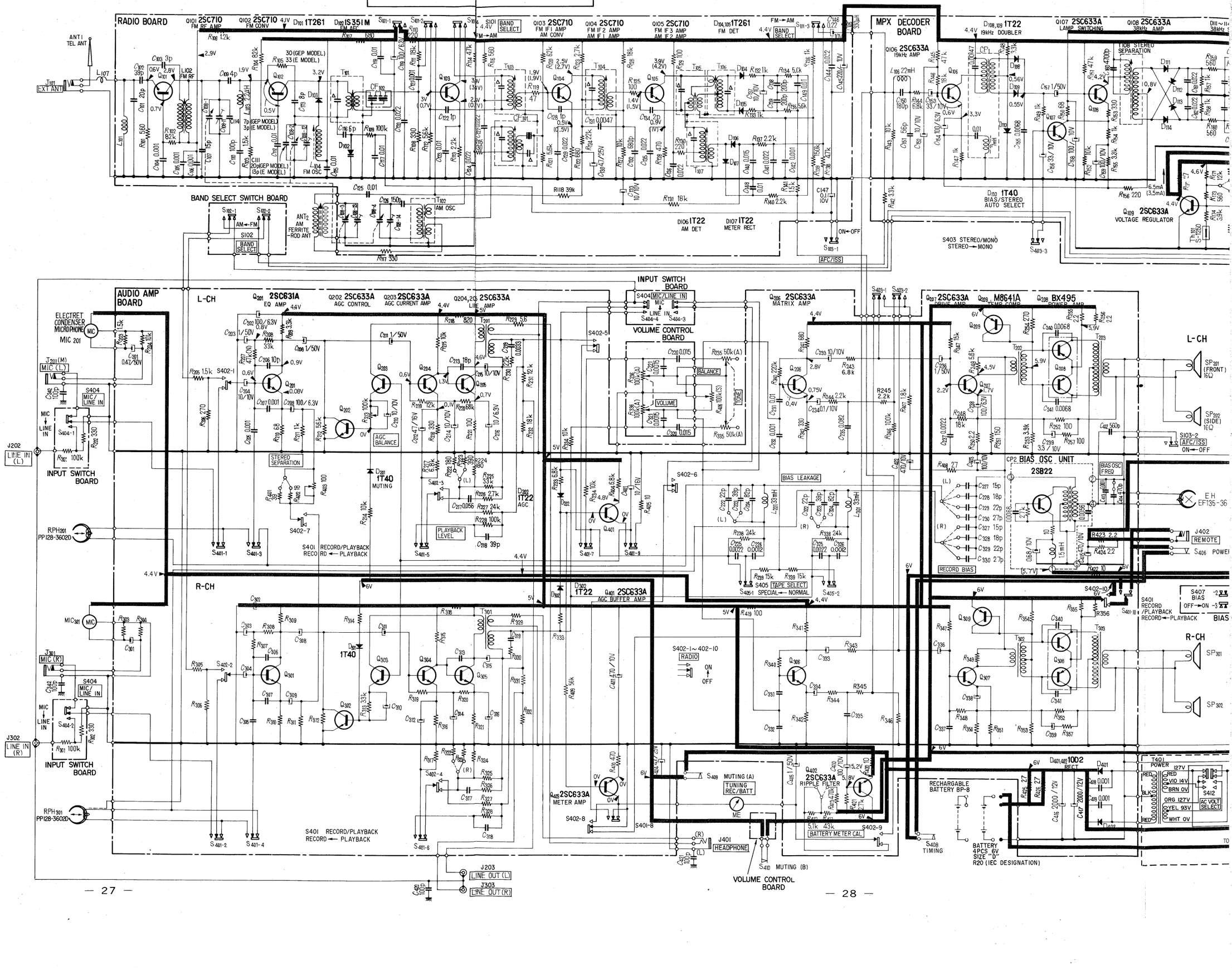
BIAS SWITCH BOARD

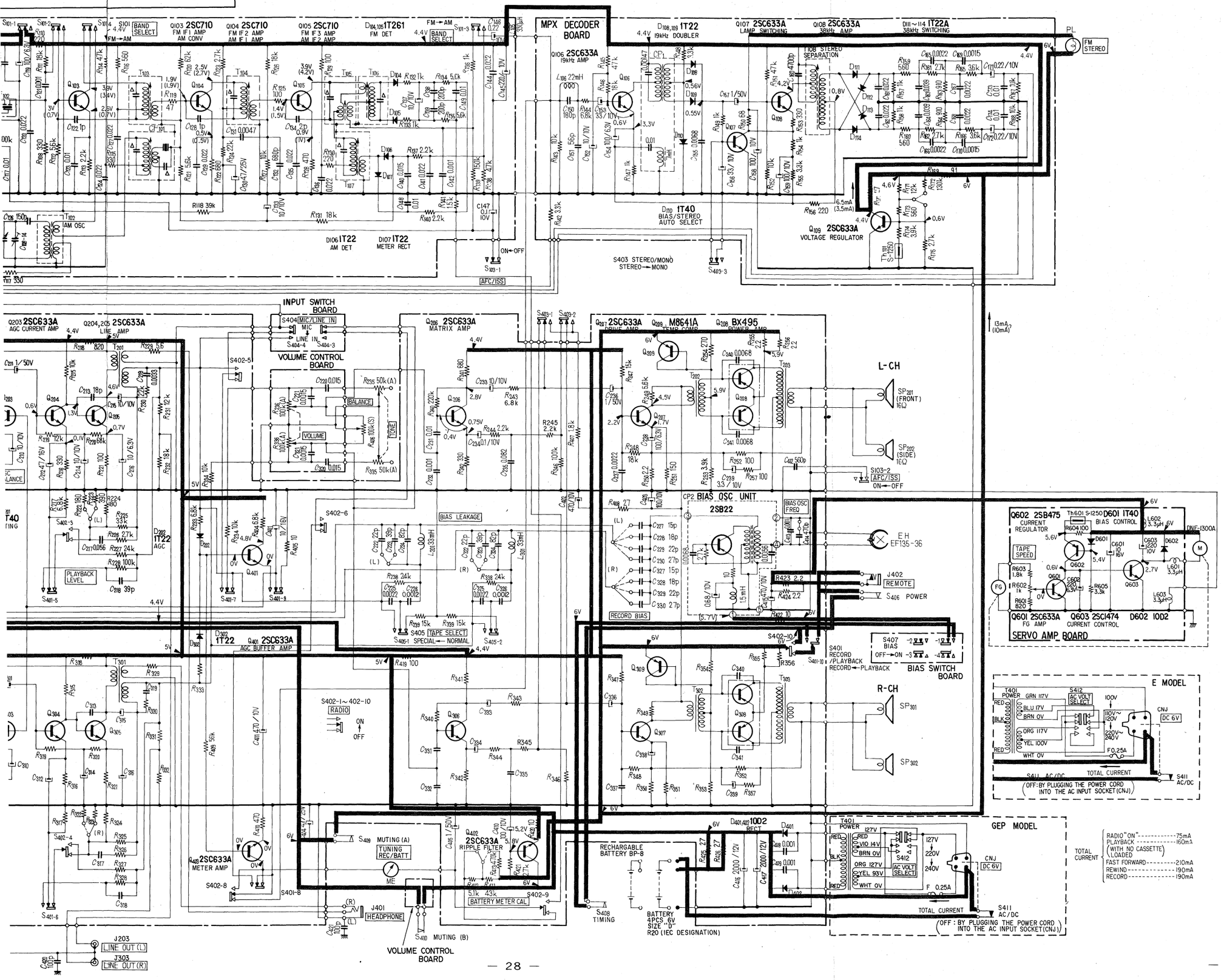
MPX DECODER BOARD

RADIO BOARD

Q	D
	401 402
402	
403	
206 207 307 208	
306	
	201 301
202 302 401 308 203 303 209	302 202
309	
201 205 204 301 304 305	
Q	D

4-4. SCHEMATIC DIAGRAM





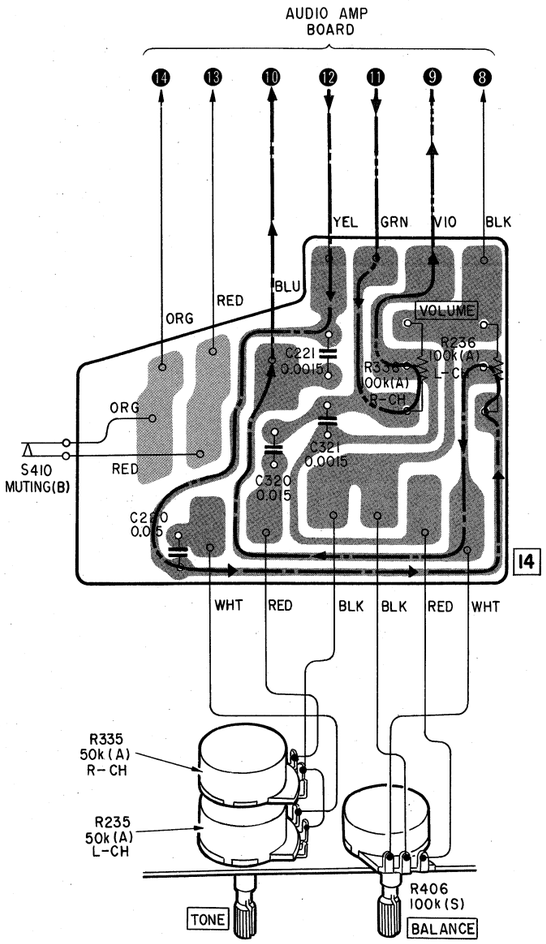
Note:

- All capacitors are in μF unless otherwise noted. 50 or less working voltages are not indicated except for electrolytic type. p = μμF
- All resistors are in Ω, ¼W, unless otherwise noted. k = 1,000 M = 1,000 k
- △ indicates internal components.
- ⏚ indicates chassis ground.
- ▬ indicates B+ circuit.
- Voltages are DC with respect to ground unless otherwise noted. Readings are taken under no-signal conditions with a VOM (20 kΩ/V). Readings in [ ] are in record mode.
  ( ): AM
  no mark: common
- Voltage variations may be noted due to normal production tolerances.
- Voltage between base and emitter are measured with 2.5 V range.
- ▭ indicates designation on the panel.
- ▭ indicates the adjustment for repair.
- Switch Mode:

Ref. No.	Switch	Position
S101	BAND SELECT	FM
S102		
S103	AFC/ISS	OFF
S401	RECORD/PLAYBACK	PLAYBACK
S402	RADIO	OFF
S403	STEREO/MONO	STEREO
S404	MIC/LINE IN	MIC
S405	TAPE SELECT	NORMAL
S406	POWER	OFF
S407	BIAS	OFF
S408	TIMING	OFF
S409	MUTING (A)	OFF
S410	MUTING (B)	OFF
S411	AC/DC	DC
S412	AC VOLT SELECT	100V (E model)
		127V (GEP model)

4-5. MOUNTING DIAGRAM — VOLUME Control Board —

— Conductor Side —



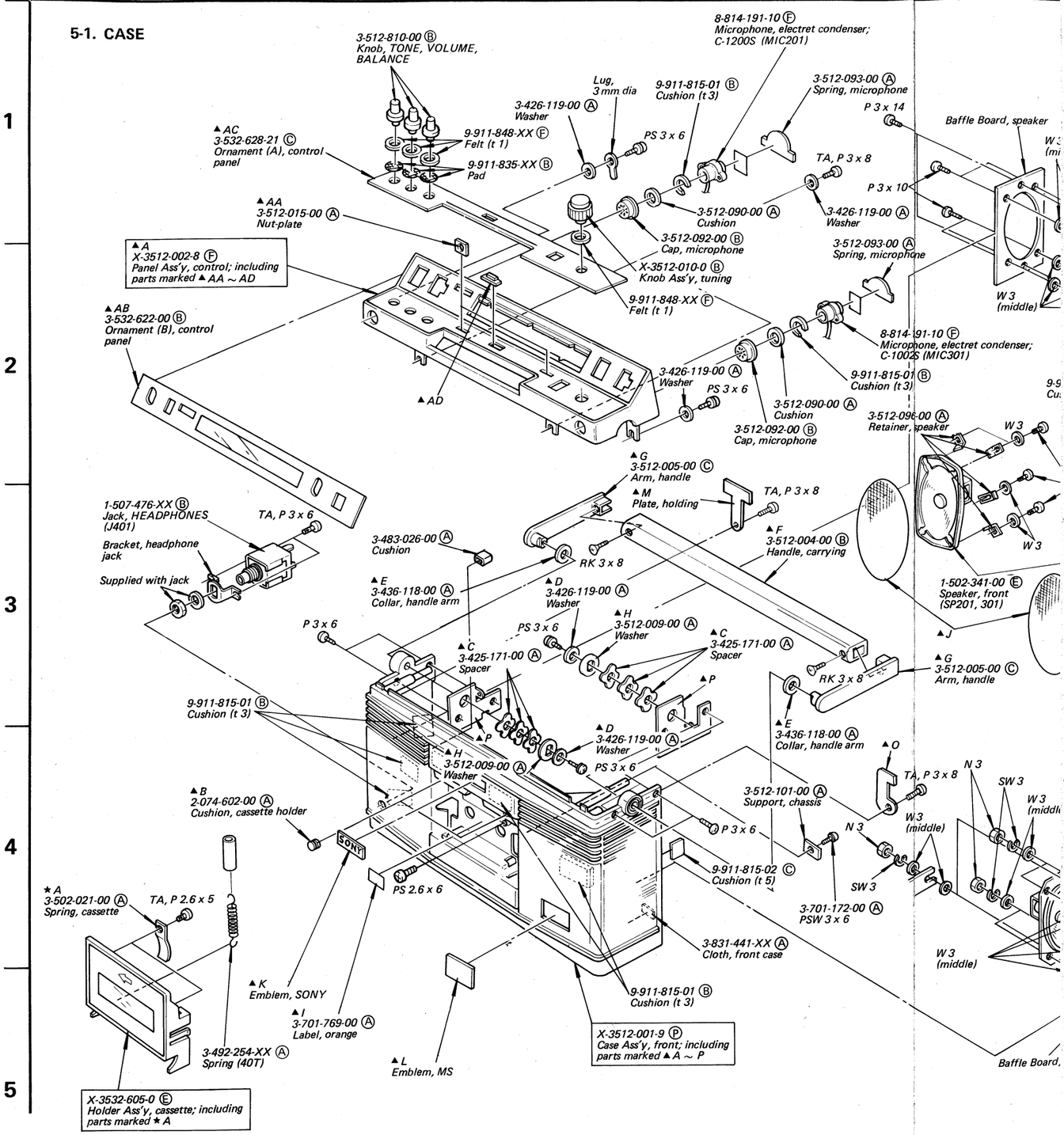
Note:

- ▒▒▒ B+ pattern.
- ——•——→ L-CH
- ——••——→ R-CH

} Signal path

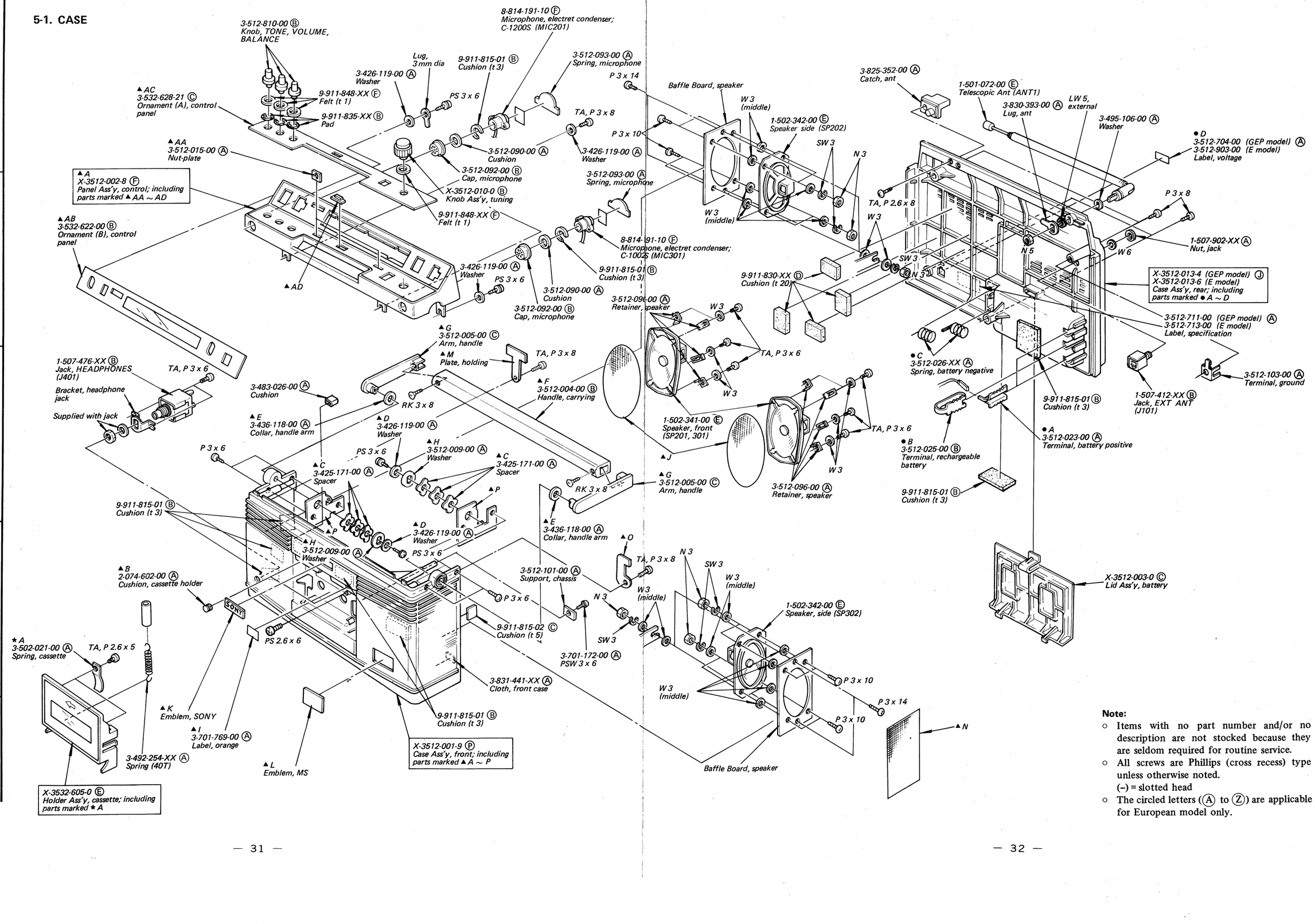
SECTION 5
EXPLODED VIEWS

5-1. CASE


3-512-810-00 Ⓑ Knob, TONE, VOLUME, BALANCE
8-814-191-10 Ⓕ Microphone, electret condenser; C-1200S (MIC201)
Lug, 3mm dia
3-426-119-00 Ⓐ Washer
9-911-815-01 Ⓑ Cushion (t 3)
3-512-093-00 Ⓐ Spring, microphone
P 3 x 14
Baffle Board, speaker
▲AC 3-532-628-21 Ⓒ Ornament (A), control panel
9-911-848-XX Ⓕ Felt (t 1)
9-911-835-XX Ⓑ Pad
PS 3 x 6
TA, P 3 x 8
P 3 x 10
▲AA 3-512-015-00 Ⓐ Nut-plate
3-512-090-00 Ⓐ Cushion
3-426-119-00 Ⓐ Washer
3-512-092-00 Ⓑ Cap, microphone
X-3512-010-0 Ⓑ Knob Ass'y, tuning
▲A X-3512-002-8 Ⓕ Panel Ass'y, control; including parts marked ▲AA ~ AD
9-911-848-XX Ⓕ Felt (t 1)
3-512-093-00 Ⓐ Spring, microphone
W 3 (middle)
▲AB 3-532-622-00 Ⓑ Ornament (B), control panel
8-814-191-10 Ⓕ Microphone, electret condenser; C-1002S (MIC301)
3-426-119-00 Ⓐ Washer
9-911-815-01 Ⓑ Cushion (t 3)
PS 3 x 6
3-512-090-00 Ⓐ Cushion
3-512-096-00 Ⓐ Retainer, speaker
3-512-092-00 Ⓑ Cap, microphone
▲AD
W 3
▲G 3-512-005-00 Ⓒ Arm, handle
▲M Plate, holding
TA, P 3 x 8
1-507-476-XX Ⓑ Jack, HEADPHONES (J401)
TA, P 3 x 6
Bracket, headphone jack
Supplied with jack
3-483-026-00 Ⓐ Cushion
▲F 3-512-004-00 Ⓑ Handle, carrying
RK 3 x 8
1-502-341-00 Ⓔ Speaker, front (SP201, 301)
▲E 3-436-118-00 Ⓐ Collar, handle arm
▲D 3-426-119-00 Ⓐ Washer
P 3 x 6
PS 3 x 6
▲H 3-512-009-00 Ⓐ Washer
▲C 3-425-171-00 Ⓐ Spacer
▲J
▲P
9-911-815-01 Ⓑ Cushion (t 3)
▲B 2-074-602-00 Ⓐ Cushion, cassette holder
SONY
PS 2.6 x 6
3-512-101-00 Ⓐ Support, chassis
TA, P 3 x 8
N 3
SW 3
W 3 (middle)
9-911-815-02 Ⓒ Cushion (t 5)
3-701-172-00 Ⓐ PSW 3 x 6
★A 3-502-021-00 Ⓐ Spring, cassette
TA, P 2.6 x 5
3-831-441-XX Ⓐ Cloth, front case
▲K Emblem, SONY
▲I 3-701-769-00 Ⓐ Label, orange
3-492-254-XX Ⓐ Spring (40T)
▲L Emblem, MS
X-3512-001-9 Ⓟ Case Ass'y, front; including parts marked ▲A ~ P
X-3532-605-0 Ⓔ Holder Ass'y, cassette; including parts marked ★A
Baffle Board,

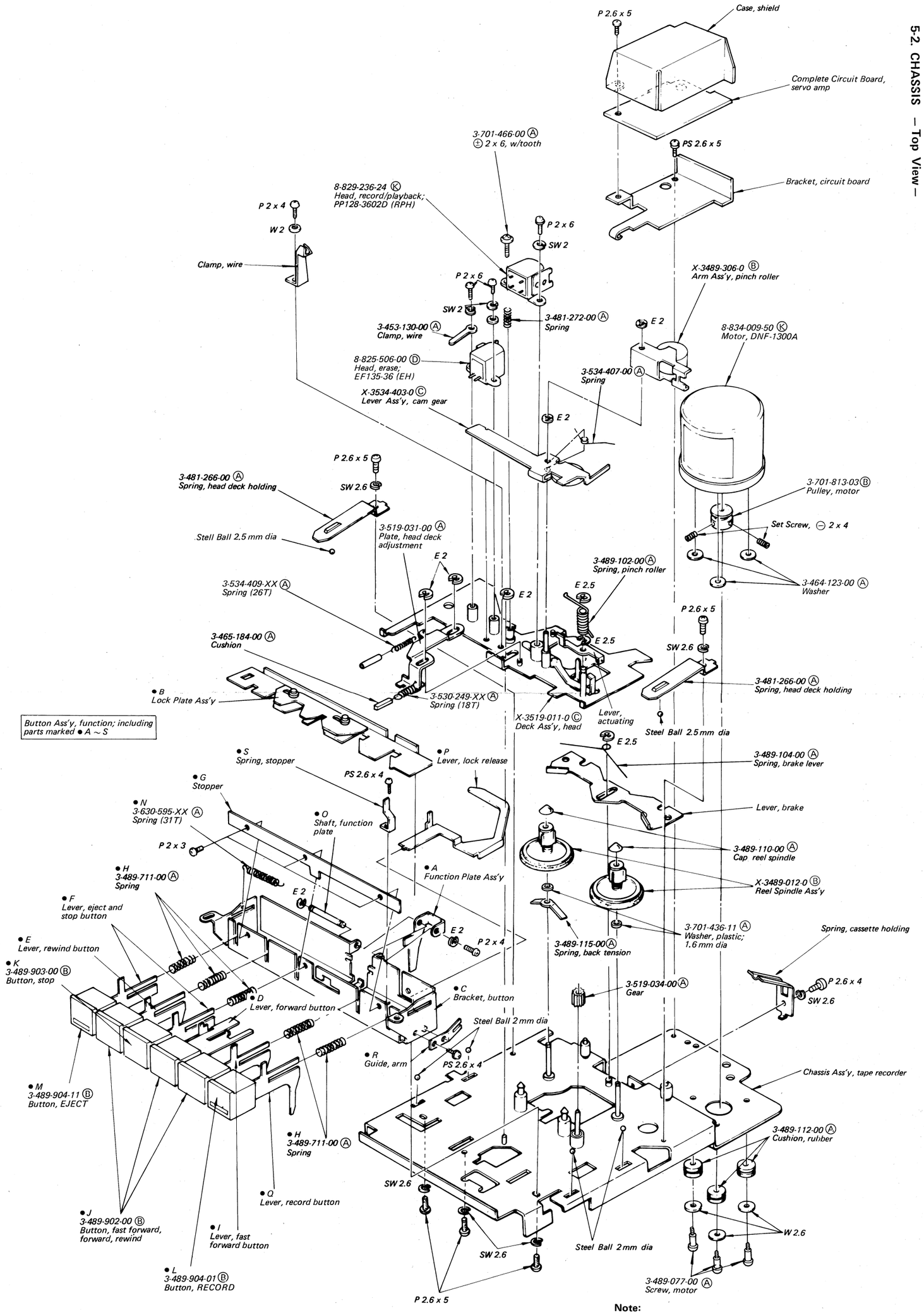
SECTION 5
EXPLODED VIEWS

5-1. CASE


3-512-810-00 Ⓑ Knob, TONE, VOLUME, BALANCE
8-814-191-10 Ⓕ Microphone, electret condenser; C-1200S (MIC201)
Lug, 3 mm dia
9-911-815-01 Ⓑ Cushion (t 3)
3-512-093-00 Ⓐ Spring, microphone
3-426-119-00 Ⓐ Washer
P 3 x 14
PS 3 x 6
▲AC 3-532-628-21 Ⓒ Ornament (A), control panel
9-911-848-XX Ⓕ Felt (t 1)
9-911-835-XX Ⓑ Pad
TA, P 3 x 8
P 3 x 10
▲AA 3-512-015-00 Ⓐ Nut-plate
3-512-090-00 Ⓐ Cushion
3-426-119-00 Ⓐ Washer
3-512-092-00 Ⓑ Cap, microphone
X-3512-010-0 Ⓑ Knob Ass'y, tuning
3-512-093-00 Ⓐ Spring, microphone
▲A X-3512-002-8 Ⓕ Panel Ass'y, control; including parts marked ▲AA ~ AD
9-911-848-XX Ⓕ Felt (t 1)
▲AB 3-532-622-00 Ⓑ Ornament (B), control panel
8-814-191-10 Ⓕ Microphone, electret condenser; C-1002S (MIC301)
3-426-119-00 Ⓐ Washer
PS 3 x 6
9-911-815-01 Ⓑ Cushion (t 3)
▲AD
3-512-090-00 Ⓐ Cushion
3-512-092-00 Ⓑ Cap, microphone
3-512-096-00 Ⓐ Retainer, speaker
W 3
TA, P 3 x 6
1-502-341-00 Ⓔ Speaker, front (SP201, 301)
▲J
▲G 3-512-005-00 Ⓒ Arm, handle
3-512-096-00 Ⓐ Retainer, speaker
Baffle Board, speaker
W 3 (middle)
1-502-342-00 Ⓔ Speaker side (SP202)
SW 3
N 3
TA, P 2.6 x 8
3-825-352-00 Ⓐ Catch, ant
1-501-072-00 Ⓔ Telescopic Ant (ANT1)
3-830-393-00 Ⓐ Lug, ant
LW 5, external
3-495-106-00 Ⓐ Washer
P 3 x 8
●D 3-512-704-00 (GEP model) Ⓐ 3-512-903-00 (E model) Label, voltage
1-507-902-XX Ⓐ Nut, jack
W 6
N 5
9-911-830-XX Ⓓ Cushion (t 20)
X-3512-013-4 (GEP model) Ⓙ X-3512-013-6 (E model) Case Ass'y, rear; including parts marked ● A ~ D
3-512-711-00 (GEP model) Ⓐ 3-512-713-00 (E model) Label, specification
●C 3-512-026-XX Ⓐ Spring, battery negative
9-911-815-01 Ⓑ Cushion (t 3)
1-507-412-XX Ⓑ Jack, EXT ANT (J101)
3-512-103-00 Ⓐ Terminal, ground
●A 3-512-023-00 Ⓐ Terminal, battery positive
●B 3-512-025-00 Ⓑ Terminal, rechargeable battery
9-911-815-01 Ⓑ Cushion (t 3)
X-3512-003-0 Ⓒ Lid Ass'y, battery
1-507-476-XX Ⓑ Jack, HEADPHONES (J401)
TA, P 3 x 6
Bracket, headphone jack
Supplied with jack
▲G 3-512-005-00 Ⓒ Arm, handle
▲M Plate, holding
TA, P 3 x 8
▲F 3-512-004-00 Ⓑ Handle, carrying
3-483-026-00 Ⓐ Cushion
RK 3 x 8
▲E 3-436-118-00 Ⓐ Collar, handle arm
▲D 3-426-119-00 Ⓐ Washer
P 3 x 6
PS 3 x 6
▲H 3-512-009-00 Ⓐ Washer
▲C 3-425-171-00 Ⓐ Spacer
▲C 3-425-171-00 Ⓐ Spacer
▲P
9-911-815-01 Ⓑ Cushion (t 3)
▲D 3-426-119-00 Ⓐ Washer
▲H 3-512-009-00 Ⓐ Washer
PS 3 x 6
▲E 3-436-118-00 Ⓐ Collar, handle arm
▲O
TA, P 3 x 8
3-512-101-00 Ⓐ Support, chassis
N 3
SW 3
W 3 (middle)
P 3 x 6
9-911-815-02 Ⓒ Cushion (t 5)
3-701-172-00 Ⓐ PSW 3 x 6
1-502-342-00 Ⓔ Speaker, side (SP302)
P 3 x 10
P 3 x 14
▲N
▲B 2-074-602-00 Ⓐ Cushion, cassette holder
SONY
PS 2.6 x 6
★A 3-502-021-00 Ⓐ Spring, cassette
TA, P 2.6 x 5
▲K Emblem, SONY
▲I 3-701-769-00 Ⓐ Label, orange
3-492-254-XX Ⓐ Spring (40T)
▲L Emblem, MS
3-831-441-XX Ⓐ Cloth, front case
9-911-815-01 Ⓑ Cushion (t 3)
X-3512-001-9 Ⓟ Case Ass'y, front; including parts marked ▲A ~ P
X-3532-605-0 Ⓔ Holder Ass'y, cassette; including parts marked ★A

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.


P 2.6 x 5
Case, shield
Complete Circuit Board, servo amp
3-701-466-00 Ⓐ ± 2 x 6, w/tooth
PS 2.6 x 5
Bracket, circuit board
8-829-236-24 Ⓚ Head, record/playback; PP128-3602D (RPH)
P 2 x 4
W 2
Clamp, wire
P 2 x 6
SW 2
X-3489-306-0 Ⓑ Arm Ass'y, pinch roller
P 2 x 6
SW 2
3-453-130-00 Ⓐ Clamp, wire
3-481-272-00 Ⓐ Spring
E 2
8-834-009-50 Ⓚ Motor, DNF-1300A
8-825-506-00 Ⓓ Head, erase; EF135-36 (EH)
3-534-407-00 Ⓐ Spring
X-3534-403-0 Ⓒ Lever Ass'y, cam gear
E 2
P 2.6 x 5
SW 2.6
3-481-266-00 Ⓐ Spring, head deck holding
3-701-813-03 Ⓑ Pulley, motor
Set Screw, ⊖ 2 x 4
Stell Ball 2.5 mm dia
3-519-031-00 Ⓐ Plate, head deck adjustment
E 2
3-489-102-00 Ⓐ Spring, pinch roller
3-534-409-XX Ⓐ Spring (26T)
E 2
E 2.5
3-464-123-00 Ⓐ Washer
P 2.6 x 5
3-465-184-00 Ⓐ Cushion
E 2.5
SW 2.6
• B Lock Plate Ass'y
3-530-249-XX Ⓐ Spring (18T)
X-3519-011-0 Ⓒ Deck Ass'y, head
Lever, actuating
Steel Ball 2.5 mm dia
3-481-266-00 Ⓐ Spring, head deck holding
Button Ass'y, function; including parts marked • A ~ S
• S Spring, stopper
PS 2.6 x 4
• P Lever, lock release
E 2.5
3-489-104-00 Ⓐ Spring, brake lever
• G Stopper
• N 3-630-595-XX Ⓐ Spring (31T)
• O Shaft, function plate
Lever, brake
P 2 x 3
3-489-110-00 Ⓐ Cap, reel spindle
• H 3-489-711-00 Ⓐ Spring
• A Function Plate Ass'y
X-3489-012-0 Ⓑ Reel Spindle Ass'y
E 2
• F Lever, eject and stop button
E 2
P 2 x 4
3-701-436-11 Ⓐ Washer, plastic; 1.6 mm dia
3-489-115-00 Ⓐ Spring, back tension
Spring, cassette holding
• E Lever, rewind button
• K 3-489-903-00 Ⓑ Button, stop
• D Lever, forward button
• C Bracket, button
3-519-034-00 Ⓐ Gear
P 2.6 x 4
SW 2.6
Steel Ball 2 mm dia
• R Guide, arm
PS 2.6 x 4
Chassis Ass'y, tape recorder
• M 3-489-904-11 Ⓑ Button, EJECT
• H 3-489-711-00 Ⓐ Spring
3-489-112-00 Ⓐ Cushion, rubber
SW 2.6
• Q Lever, record button
W 2.6
• J 3-489-902-00 Ⓑ Button, fast forward, forward, rewind
• I Lever, fast forward button
SW 2.6
Steel Ball 2 mm dia
• L 3-489-904-01 Ⓑ Button, RECORD
3-489-077-00 Ⓐ Screw, motor
P 2.6 x 5

Note:

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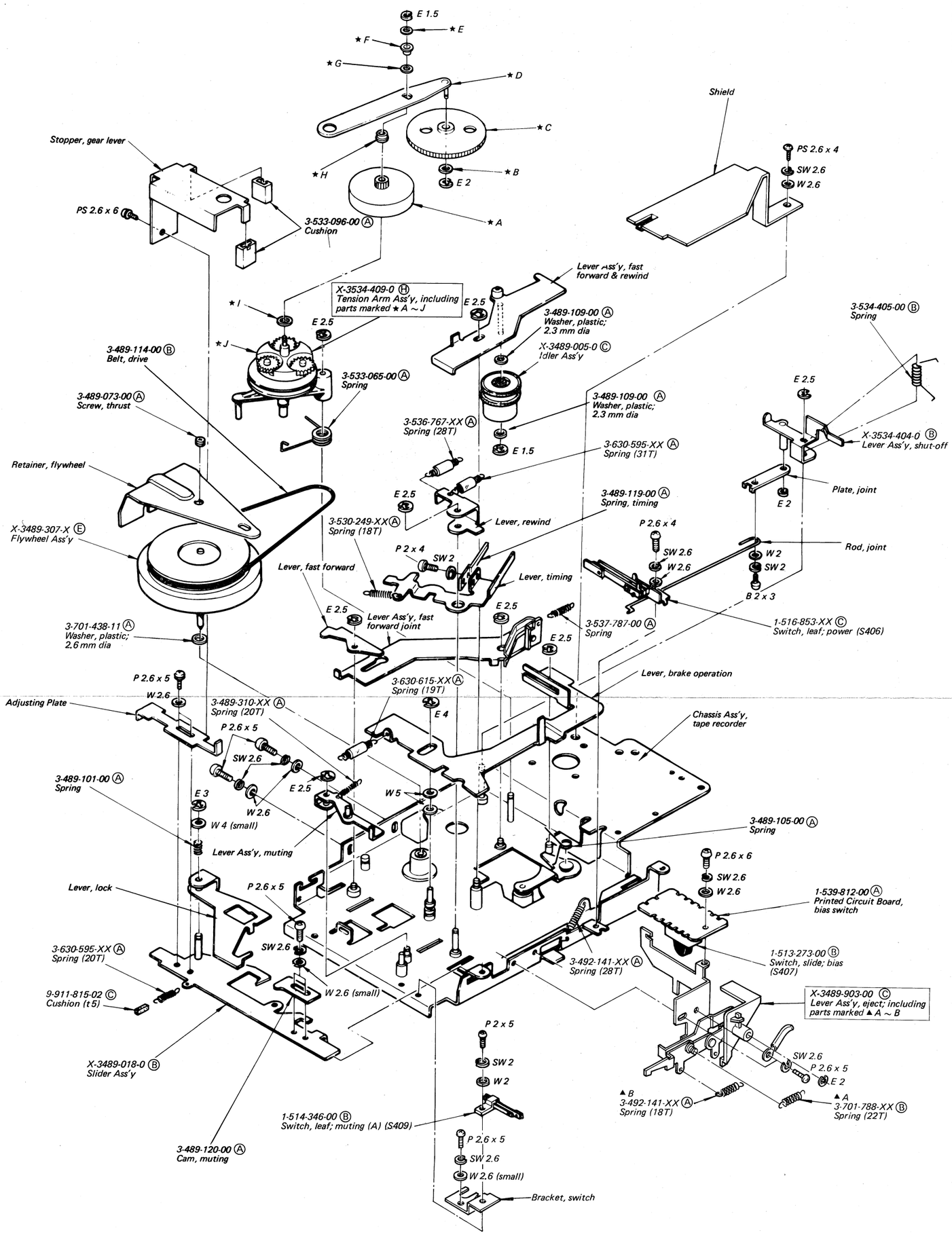
  (–) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.



Note:

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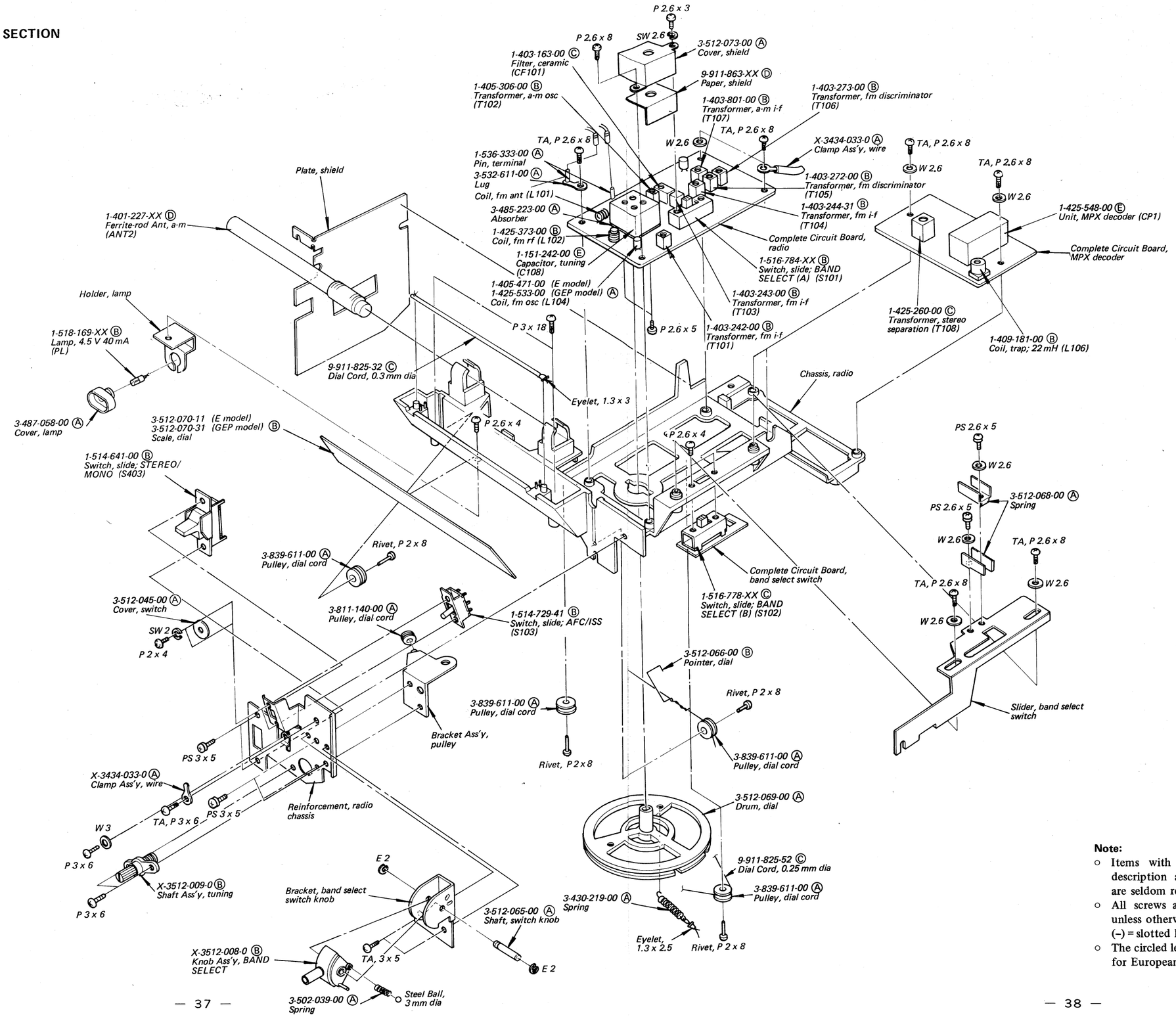
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

5-4. RADIO SECTION


P 2.6 x 3
P 2.6 x 8
SW 2.6
3-512-073-00 Ⓐ Cover, shield
1-403-163-00 Ⓒ Filter, ceramic (CF101)
9-911-863-XX Ⓓ Paper, shield
1-405-306-00 Ⓑ Transformer, a-m osc (T102)
1-403-801-00 Ⓑ Transformer, a-m i-f (T107)
1-403-273-00 Ⓑ Transformer, fm discriminator (T106)
TA, P 2.6 x 8
W 2.6
X-3434-033-0 Ⓐ Clamp Ass'y, wire
1-536-333-00 Ⓐ Pin, terminal
3-532-611-00 Ⓐ Lug
Coil, fm ant (L101)
1-403-272-00 Ⓑ Transformer, fm discriminator (T105)
3-485-223-00 Ⓐ Absorber
1-425-373-00 Ⓑ Coil, fm rf (L102)
1-403-244-31 Ⓑ Transformer, fm i-f (T104)
1-425-548-00 Ⓔ Unit, MPX decoder (CP1)
Complete Circuit Board, radio
Complete Circuit Board, MPX decoder
1-151-242-00 Ⓔ Capacitor, tuning (C108)
1-516-784-XX Ⓑ Switch, slide; BAND SELECT (A) (S101)
1-405-471-00 (E model)
1-425-533-00 (GEP model) Ⓐ Coil, fm osc (L104)
1-403-243-00 Ⓑ Transformer, fm i-f (T103)
P 3 x 18
P 2.6 x 5
1-403-242-00 Ⓑ Transformer, fm i-f (T101)
1-425-260-00 Ⓒ Transformer, stereo separation (T108)
1-409-181-00 Ⓑ Coil, trap; 22 mH (L106)
Plate, shield
1-401-227-XX Ⓓ Ferrite-rod Ant, a-m (ANT2)
Holder, lamp
1-518-169-XX Ⓑ Lamp, 4.5 V 40 mA (PL)
3-487-058-00 Ⓐ Cover, lamp
9-911-825-32 Ⓒ Dial Cord, 0.3 mm dia
Eyelet, 1.3 x 3
Chassis, radio
P 2.6 x 4
3-512-070-11 (E model)
3-512-070-31 (GEP model) Ⓑ Scale, dial
1-514-641-00 Ⓑ Switch, slide; STEREO/ MONO (S403)
PS 2.6 x 5
W 2.6
3-512-068-00 Ⓐ Spring
TA, P 2.6 x 8
3-839-611-00 Ⓐ Pulley, dial cord
Rivet, P 2 x 8
3-512-045-00 Ⓐ Cover, switch
SW 2
P 2 x 4
3-811-140-00 Ⓐ Pulley, dial cord
1-514-729-41 Ⓑ Switch, slide; AFC/ISS (S103)
Complete Circuit Board, band select switch
1-516-778-XX Ⓒ Switch, slide; BAND SELECT (B) (S102)
3-512-066-00 Ⓑ Pointer, dial
Slider, band select switch
Bracket Ass'y, pulley
PS 3 x 5
X-3434-033-0 Ⓐ Clamp Ass'y, wire
TA, P 3 x 6
Reinforcement, radio chassis
W 3
P 3 x 6
X-3512-009-0 Ⓑ Shaft Ass'y, tuning
3-512-069-00 Ⓐ Drum, dial
9-911-825-52 Ⓒ Dial Cord, 0.25 mm dia
3-430-219-00 Ⓐ Spring
Eyelet, 1.3 x 2.5
E 2
Bracket, band select switch knob
3-512-065-00 Ⓐ Shaft, switch knob
X-3512-008-0 Ⓑ Knob Ass'y, BAND SELECT
TA, 3 x 5
3-502-039-00 Ⓐ Spring
Steel Ball, 3 mm dia

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
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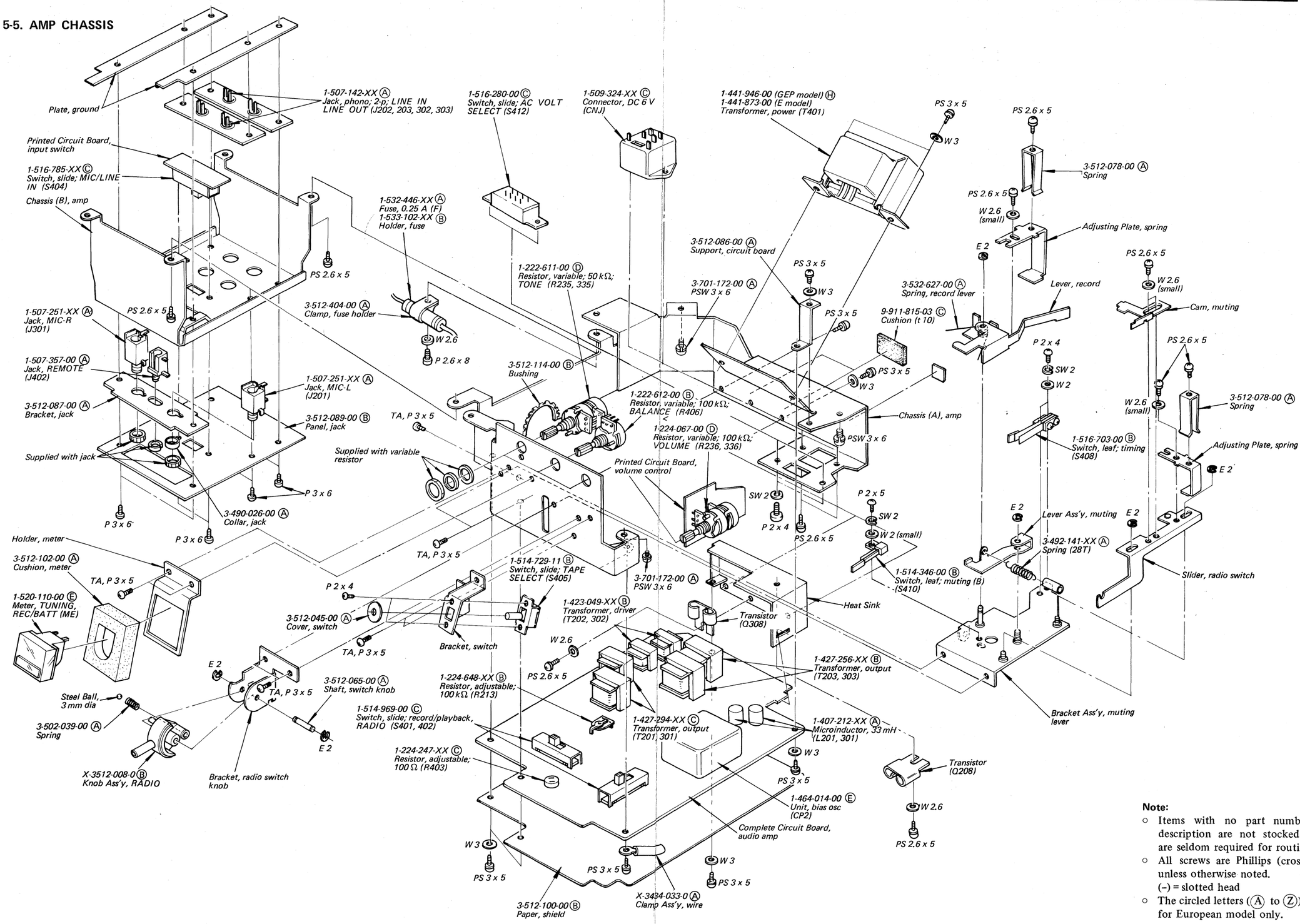
5-5. AMP CHASSIS


Plate, ground
1-507-142-XX Ⓐ Jack, phono; 2-p; LINE IN LINE OUT (J202, 203, 302, 303)
1-516-280-00 Ⓒ Switch, slide; AC VOLT SELECT (S412)
1-509-324-XX Ⓒ Connector, DC 6 V (CNJ)
1-441-946-00 (GEP model) Ⓗ
1-441-873-00 (E model)
Transformer, power (T401)
PS 3 x 5
W 3
PS 2.6 x 5
3-512-078-00 Ⓐ Spring
Printed Circuit Board, input switch
1-516-785-XX Ⓒ Switch, slide; MIC/LINE IN (S404)
Chassis (B), amp
1-532-446-XX Ⓐ Fuse, 0.25 A (F)
1-533-102-XX Ⓑ Holder, fuse
PS 2.6 x 5
W 2.6 (small)
Adjusting Plate, spring
E 2
3-512-086-00 Ⓐ Support, circuit board
PS 3 x 5
W 3
1-222-611-00 Ⓓ Resistor, variable; 50 kΩ; TONE (R235, 335)
3-701-172-00 Ⓐ PSW 3 x 6
3-532-627-00 Ⓐ Spring, record lever
Lever, record
PS 2.6 x 5
W 2.6 (small)
Cam, muting
1-507-251-XX Ⓐ Jack, MIC-R (J301)
PS 2.6 x 5
3-512-404-00 Ⓐ Clamp, fuse holder
W 2.6
P 2.6 x 8
PS 3 x 5
9-911-815-03 Ⓒ Cushion (t 10)
P 2 x 4
SW 2
W 2
1-507-357-00 Ⓐ Jack, REMOTE (J402)
3-512-114-00 Ⓑ Bushing
1-507-251-XX Ⓐ Jack, MIC-L (J201)
3-512-089-00 Ⓑ Panel, jack
1-222-612-00 Ⓑ Resistor, variable; 100 kΩ; BALANCE (R406)
PS 3 x 5
W 3
Chassis (A), amp
PS 2.6 x 5
3-512-078-00 Ⓐ Spring
3-512-087-00 Ⓐ Bracket, jack
TA, P 3 x 5
1-224-067-00 Ⓓ Resistor, variable; 100 kΩ; VOLUME (R236, 336)
PSW 3 x 6
1-516-703-00 Ⓑ Switch, leaf; timing (S408)
Supplied with jack
Supplied with variable resistor
Printed Circuit Board, volume control
Adjusting Plate, spring
E 2
P 3 x 6
SW 2
P 2 x 5
SW 2
E 2
Lever Ass'y, muting
E 2
P 3 x 6
P 3 x 6
3-490-026-00 Ⓐ Collar, jack
P 2 x 4
PS 2.6 x 5
W 2 (small)
3-492-141-XX Ⓐ Spring (28T)
Holder, meter
3-512-102-00 Ⓐ Cushion, meter
TA, P 3 x 5
1-514-729-11 Ⓑ Switch, slide; TAPE SELECT (S405)
1-514-346-00 Ⓑ Switch, leaf; muting (B) (S410)
Slider, radio switch
1-520-110-00 Ⓔ Meter, TUNING, REC/BATT (ME)
P 2 x 4
3-701-172-00 Ⓐ PSW 3 x 6
Heat Sink
3-512-045-00 Ⓐ Cover, switch
1-423-049-XX Ⓑ Transformer, driver (T202, 302)
Transistor (Q308)
TA, P 3 x 5
Bracket, switch
W 2.6
1-427-256-XX Ⓑ Transformer, output (T203, 303)
E 2
PS 2.6 x 5
3-512-065-00 Ⓐ Shaft, switch knob
1-224-648-XX Ⓑ Resistor, adjustable; 100 kΩ (R213)
TA, P 3 x 5
Steel Ball, 3 mm dia
1-514-969-00 Ⓒ Switch, slide; record/playback, RADIO (S401, 402)
1-427-294-XX Ⓒ Transformer, output (T201, 301)
1-407-212-XX Ⓐ Microinductor, 33 mH (L201, 301)
3-502-039-00 Ⓐ Spring
E 2
1-224-247-XX Ⓒ Resistor, adjustable; 100 Ω (R403)
W 3
PS 3 x 5
Transistor (Q208)
X-3512-008-0 Ⓑ Knob Ass'y, RADIO
Bracket, radio switch knob
1-464-014-00 Ⓔ Unit, bias osc (CP2)
W 2.6
PS 2.6 x 5
Complete Circuit Board, audio amp
W 3
PS 3 x 5
PS 3 x 5
W 3
PS 3 x 5
X-3434-033-0 Ⓐ Clamp Ass'y, wire
3-512-100-00 Ⓑ Paper, shield
Bracket Ass'y, muting lever

Note:

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SECTION 6
ELECTRICAL PARTS LIST

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	Part No.		Description
			PRINTED CIRCUIT BOARD
	1-539-812-00	Ⓐ	Bias Switch
			SEMICONDUCTORS
			Transistors
Q101~105		Ⓑ	2SC710
⇒ Q106~109		Ⓑ	2SC634A
⇒ Q201,301		Ⓑ	2SC632A
⇒ Q202~207, Q302~307		Ⓑ	2SC634A
⇒ Q208,308		Ⓒ	BX324
Q209,309		Ⓑ	M8641A
⇒ Q401~403		Ⓑ	2SC634A
⇒ Q601		Ⓑ	2SC634A
Q602		Ⓑ	2SB475
Q603		Ⓑ	2SC1474
			Diodes
D101		Ⓑ	1T261
⇒ D102		Ⓑ	1S351M-1
D104,105		Ⓑ	1T261
⇒ D106~109		Ⓑ	1T22A
⇒ D110		Ⓑ	1S1555
D111~114		Ⓑ	1T22A
⇒ D201,301		Ⓑ	1S1555
⇒ D202,302		Ⓑ	1T22A
D401,402		Ⓑ	10D2
⇒ D601		Ⓑ	1S1555
D602		Ⓑ	10D2
			COILS
L102	1-425-373-00	Ⓑ	FM RF
L103	1-407-182-XX	Ⓐ	Microinductor, 2.2μH
L104	1-405-471-00	Ⓐ	FM Osc (E model)
	1-425-533-00	Ⓐ	FM Osc (GEP model)

⇒: Due to replacement parts, the descriptions are different on the schematic diagram.

Ref. No.	Part No.		Description
L105	1-407-175-XX	Ⓐ	Microinductor, 330μH
L106	1-409-181-00	Ⓑ	Trap, 22 mH
L201,301	1-407-212-XX	Ⓐ	Microinductor, 33 mH
L601~603	1-407-484-00	Ⓐ	Microinductor, 3.3μH
			TRANSFORMERS
T101	1-403-242-00	Ⓑ	FM IF
T102	1-405-306-00	Ⓑ	AM Osc
T103	1-403-243-00	Ⓑ	FM IF
T104	1-403-244-31	Ⓑ	FM IF
T105	1-403-272-00	Ⓑ	FM Discriminator
T106	1-403-273-00	Ⓑ	FM Discriminator
T107	1-403-801-00	Ⓑ	AM IF
T108	1-425-260-00	Ⓒ	Stereo Separation
T201,301	1-427-294-XX	Ⓒ	Output
T202,302	1-423-049-XX	Ⓑ	Driver
T203,303	1-427-256-XX	Ⓑ	Output
T401	1-441-873-00	Ⓗ	Power (E model)
	1-441-946-00	Ⓗ	Power (GEP model)
			CAPACITORS

All capacitors are in μF and of electrolytic unless otherwise noted. (p = μμF)
50 and/or less working voltages are not noted except for electrolytic type.

C101	1-102-958-11	Ⓐ	20p	ceramic
C102	1-102-965-11	Ⓐ	39p	ceramic
C103	1-102-940-11	Ⓐ	3p	ceramic (E model)
C104~106	1-101-918-11	Ⓐ	0.001	ceramic
C107	1-102-951-11	Ⓐ	15p	ceramic
C108	1-151-242-00	Ⓔ	tuning	
C109	1-102-941-11	Ⓐ	4p	ceramic
C110	1-102-973-11	Ⓐ	100p	ceramic
C111	1-102-950-11	Ⓐ	13p	ceramic (E model)
	1-102-958-11	Ⓐ	20p	ceramic (GEP model)
C112	1-102-923-11	Ⓐ	0.01	ceramic

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	Part No.		Description	
C113	1-102-945-11	Ⓐ 8p		ceramic
C114	1-102-940-11	Ⓐ 3p		ceramic (E model)
	1-102-944-11	Ⓐ 7p		ceramic (GEP model)
C115	1-108-239-12	Ⓐ 0.01		mylar
C116	1-102-943-11	Ⓐ 6p		ceramic
C117,118	1-101-923-11	Ⓐ 0.01		ceramic
C119	1-121-413-11	Ⓐ 100	6.3V	
C120	1-108-242-12	Ⓐ 0.022		mylar
C121	1-101-918-11	Ⓐ 0.001		ceramic
C122	1-102-934-11	Ⓐ 1p		ceramic
C123	1-108-239-12	Ⓐ 0.01		mylar
C124	1-108-242-12	Ⓐ 0.022		mylar
C125	1-101-923-11	Ⓐ 0.01		ceramic
C126	1-103-605-11	Ⓐ 150p		polystyrol
C127	1-108-242-12	Ⓐ 0.022		mylar
C128	1-102-934-11	Ⓐ 1p		ceramic
C129	1-108-242-12	Ⓐ 0.022		mylar
C130	1-121-395-11	Ⓐ 4.7	25V	
C131	1-101-922-11	Ⓐ 0.0047		ceramic
C132	1-103-621-11	Ⓐ 680p		polystyrol
C133	1-121-469-11	Ⓐ 10	10V	
C134	1-102-935-11	Ⓐ 2p		
C135	1-108-242-12	Ⓐ 0.022		mylar
C136	1-108-242-12	Ⓐ 0.022		mylar
C137	1-121-469-11	Ⓐ 10	10V	
C138,139	1-103-608-11	Ⓐ 200p		polystyrol
C140	1-108-240-12	Ⓐ 0.015		mylar
C141	1-108-242-12	Ⓐ 0.022		mylar
C142	1-101-918-11	Ⓐ 0.001		ceramic
C144	1-108-242-12	Ⓐ 0.022		mylar
C145	1-121-420-11	Ⓐ 220	10V	
C146	1-127-020-11	Ⓐ 0.22	10V	solid aluminum
C147	1-127-019-11	Ⓐ 0.1	10V	solid aluminum
C148,149	1-108-239-12	Ⓐ 0.01		mylar
C150	1-107-137-11	Ⓐ 180p		silvered mica
C151	1-107-125-11	Ⓐ 56p		silvered mica
C152	1-121-469-11	Ⓐ 10	10V	
C153	1-121-402-11	Ⓐ 33	10V	
C154	1-121-413-11	Ⓐ 100	6.3V	
C155	1-108-237-12	Ⓐ 0.0068		mylar
C156	1-121-402-11	Ⓐ 33	10V	
C157	1-121-391-11	Ⓐ 1	50V	
C158,159	1-121-414-11	Ⓐ 100	10V	
C160	1-103-575-11	Ⓑ 0.0047		polystyrol
C161,162	1-108-242-12	Ⓐ 0.022		mylar
C163,164	1-108-360-12	Ⓐ 0.039		mylar
C165~168	1-108-230-12	Ⓐ 0.0022		mylar
C169,170	1-108-228-12	Ⓐ 0.0015		mylar
C171,172	1-127-020-11	Ⓐ 0.22	10V	solid aluminum
C173,174	1-108-239-12	Ⓐ 0.01		mylar
C201,301	1-121-726-11	Ⓐ 0.47	50V	
C202,302	1-121-413-11	Ⓐ 100	6.3V	
C203,303	1-121-391-11	Ⓐ 1	50V	
C204,304	1-121-496-11	Ⓑ 10	10V	
C205,305	1-108-227-12	Ⓑ 0.001		mylar
C206,306	1-102-947-11	Ⓐ 10p		ceramic
C207,307	1-108-227-12	Ⓑ 0.001		mylar
C208,308	1-121-391-11	Ⓐ 1	50V	
C209,309	1-121-413-11	Ⓐ 100	6.3V	
C210,310	1-121-469-11	Ⓐ 10	10V	
C211,311	1-121-391-11	Ⓐ 1	50V	
C212,312	1-121-409-11	Ⓐ 47	16V	
C213,313	1-102-953-11	Ⓐ 18p		ceramic
C214,314,315	1-121-469-11	Ⓐ 10	10V	
C216,316	1-121-413-11	Ⓐ 10	6.3V	
C217,317	1-108-361-12	Ⓐ 0.056		mylar
C218,318	1-102-965-11	Ⓐ 39p		ceramic
C219,319	1-108-232-12	Ⓐ 0.0033		mylar
C220,320	1-108-240-12	Ⓐ 0.015		mylar
C221,321	1-108-228-12	Ⓐ 0.0015		mylar
C222,322	1-107-115-11	Ⓐ 22p		silvered mica
C223,323	1-102-965-11	Ⓐ 39p		ceramic
C224,324	1-107-129-11	Ⓐ 82p		silvered mica
C225,325	1-108-230-12	Ⓐ 0.0022		mylar
C226,326	1-108-351-12	Ⓐ 0.0012		mylar
C227,327	1-107-051-11	Ⓐ 15p	500V	silvered mica
C228,328	1-107-001-11	Ⓐ 18p	500V	silvered mica
C229,329	1-107-052-11	Ⓐ 22p	500V	silvered mica
C230,330	1-107-053-11	Ⓐ 27p	500V	silvered mica
C231,331	1-108-239-12	Ⓐ 0.01		mylar

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	Part No.				Description
C232,332	1-108-227-12	Ⓐ	0.001		mylar
C233,333	1-121-469-11	Ⓐ	10	10V	
C234,334	1-127-019-11	Ⓐ	0.1	10V	solid aluminum
C235,335	1-108-362-12	Ⓑ	0.082		mylar
C236,336	1-121-391-11	Ⓐ	1	50V	
C237,337	1-108-230-12	Ⓐ	0.0022		mylar
C238,338	1-121-413-11	Ⓐ	100	6.3V	
C239,339	1-127-025-11	Ⓒ	3.3	10V	solid aluminum
C240,340 C241,341	1-108-237-12	Ⓐ	0.0068		mylar
C242,342	1-109-973-11	Ⓐ	100p		ceramic
C401	1-121-968-11	Ⓑ	10	16V	
C402	1-121-425-11	Ⓑ	470	10V	
C403	1-121-414-11	Ⓐ	100	10V	
C404	1-121-395-11	Ⓐ	4.7	25V	
C405	1-121-395-11	Ⓐ	1	50V	
C410	1-121-414-11	Ⓐ	100	10V	
C411	1-121-425-11	Ⓑ	470	10V	
C412	1-107-035-11	Ⓐ	560p	500V	silvered mica
C413	1-129-702-11	Ⓐ	0.001	630V	plastic
C414	1-107-016-11	Ⓐ	470p	500V	silvered mica
C415	1-121-425-11	Ⓑ	470	10V	
C416,417	1-121-529-11	Ⓒ	2000	12V	
C418,419	1-108-266-12	Ⓐ	0.001		mylar
C420,421	1-102-973-11	Ⓐ	100p		ceramic
C601	1-121-651-11	Ⓐ	10	16V	
C602	1-121-419-11	Ⓐ	220	6.3V	
C603	1-121-420-11	Ⓐ	220	10V	

RESISTORS

All resistors are in ohms. Regular-type ¼W carbon resistors are omitted.
Check the schematic diagram for the resistance values. (k = 1000)

Ref. No.	Part No.		Description
R213	1-224-648-XX	Ⓑ	100 k, adjustable
R235,335	1-222-611-00	Ⓓ	50 k, variable; TONE
R236,336	1-224-067-00	Ⓓ	100 k, variable; VOLUME
R403	1-224-247-XX	Ⓒ	100, adjustable
R406	1-222-612-00	Ⓑ	100 k, variable; BALANCE
R602	1-224-642-XX	Ⓑ	1 k, adjustable

SWITCHES

Ref. No.	Part No.		Description
S101	1-516-784-XX	Ⓑ	Slide, BAND SELECT (A)
S102	1-516-778-XX	Ⓒ	Slide, BAND SELECT (B)
S103	1-514-729-41	Ⓑ	Slide, AFC/ISS
S401,402	1-514-969-00	Ⓒ	Slide, record/playback, RADIO
S403	1-516-143-XX	Ⓑ	Slide, STEREO/MONO
S404	1-516-785-XX	Ⓒ	Slide, MIC/LINE IN
S405	1-514-729-11	Ⓑ	Slide, TAPE SELECT
S406	1-516-853-XX	Ⓒ	Leaf, power
S407	1-513-273-00	Ⓑ	Slide, bias
S408	1-516-703-00	Ⓑ	Leaf, timing
S409,410	1-514-346-00	Ⓑ	Leaf, muting (A, B)
S411			Included in CNJ
S412	1-516-280-00	Ⓒ	Slide, AC VOLT SELECT

JACKS

Ref. No.	Part No.		Description
J101	1-507-412-XX	Ⓑ	EXT ANT
J201,301	1-507-251-XX	Ⓐ	MIC-L, R
J202,302 J203,303	1-507-142-XX	Ⓐ	Phono, 2-p; LINE IN, LINE OUT
J401	1-507-476-XX	Ⓑ	HEADPHONE
J402	1-507-357-00	Ⓐ	REMOTE
CNJ	1-509-324-XX	Ⓒ	Connector, DC 6V

MISCELLANEOUS

Ref. No.	Part No.		Description
ANT1	1-501-072-00	Ⓔ	Antenna, telescopic
ANT2	1-401-227-XX	Ⓓ	Antenna, a-m ferrite-rod
CF101	1-403-163-00	Ⓒ	Filter, ceramic
CF102	1-527-184-XX	Ⓑ	Filter, ceramic
CP1	1-425-548-00	Ⓔ	Unit, MPX decoder
CP2	1-464-014-00	Ⓔ	Unit, bias osc
EH	8-825-506-00	Ⓓ	Head, erase (EF135-36)
F	1-532-446-XX	Ⓐ	Fuse, 0.25A
M	8-834-009-50	Ⓚ	Motor, DNF-1300A

Note: The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

Ref. No.	*Part No.*		*Description*
ME	1-520-110-00	Ⓔ	Meter, TUNING, REC/BATT
MIC201,301	8-814-191-10	Ⓕ	Microphone, electret condenser; C-1002S
PL	1-518-169-XX	Ⓑ	Lamp, 4.5 V 40 mA
RPH201,301	8-829-236-24	Ⓚ	Head, record/playback; PP128-3602D
SP201,301	1-502-341-00	Ⓔ	Speaker, front
SP202,302	1-502-342-00	Ⓔ	Speaker, side
	1-507-902-XX	Ⓐ	Nut, jack
	1-533-102-XX	Ⓑ	Holder, fuse
	1-536-333-00	Ⓐ	Pin, terminal

ACCESSORIES AND PACKING MATERIALS

Part No.		*Description*
X-3701-018-2	Ⓐ	Tips Ass'y, cleaning
1-526-565-00	Ⓑ	Adaptor, ac plug (E model)
1-528-022-00	Ⓑ	Battery, size "D" (IEC Designation R20)
1-534-518-00	Ⓓ	Cord, power (E model)
1-534-818-XX	Ⓔ	Cord, power (GEP model)
3-512-108-00	Ⓐ	Spacer
3-512-109-00	Ⓒ	Cushion
3-512-110-00	Ⓒ	Cushion
3-512-714-00	Ⓓ	Carton
3-532-616-00	Ⓑ	Bag, plastic; unit
3-780-999-51	Ⓔ	Manual, instruction
3-793-010-00	Ⓐ	Booklet, TAPE TALK
3-793-828-11	Ⓐ	Card, caution; cassette
8-893-506-00	Ⓕ	Tape, demonstration; CD-803

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